#### **CIRRIS 1A POST FLIGHT CALIBRATION**

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#### LIST OF FIGURES

	<u>Page</u>
Jones source maps for radiometer detectors 1-1 and 1-2.	1
Jones source maps for radiometer detectors 1-3 and 1-4.	2
Jones source maps for radiometer detectors 1-5 and 1-6.	3
Jones source maps for radiometer detectors 1-7 and 1-8.	4
Jones source maps for radiometer detectors 2-1 and 2-2.	5
Jones source maps for radiometer detectors 2-3 and 2-4.	6
Jones source maps for radiometer detectors 2-5.	7
Relative spectral response for radiometer detector 1-4.	16
Relative spectral response for radiometer focal plane 2.	18
Radiometer out-of-band rejection, focal plane 1, filter 0.	19
Radiometer out-of-band rejection, focal plane 1, filter 1.	19
Radiometer out-of-band rejection, focal plane 1, filter 2.	20
Radiometer out-of-band rejection, focal plane 1, filter 3.	
Radiometer out-of-band rejection, focal plane 1, filter 5.	21
Radiometer out-of-band rejection, focal plane 1, filter 7.	
Radiometer out-of-band rejection, focal plane 2.	
RMS noise history for radiometer detector 1-1.	23
RMS noise history for radiometer detector 1-2.	24
RMS noise history for radiometer detector 1-3.	
RMS noise history for radiometer detector 1-4.	26
RMS noise history for radiometer detector 1-5.	
RMS noise history for radiometer detector 1-6.	
RMS noise history for radiometer detector 1-7.	
RMS noise history for radiometer detector 1-8.	30
RMS noise history for radiometer detector 2-1.	31
RMS noise history for radiometer detector 2-2.	32
RMS noise history for radiometer detector 2-3.	33
RMS noise history for radiometer detector 2-4.	
RMS noise history for radiometer detector 2-5.	
Offset history for radiometer detector 1-1.	26

Offset history for radiometer detector 1-2.	37
Offset history for radiometer detector 1-3.	38
Offset history for radiometer detector 1-4.	39
Offset history for radiometer detector 1-5.	40
Offset history for radiometer detector 1-6.	41
Offset history for radiometer detector 1-7.	42
Offset history for radiometer detector 1-8.	43
Offset history for radiometer detector 2-1.	44
Offset history for radiometer detector 2-2.	45
Offset history for radiometer detector 2-3.	46
Offset history for radiometer detector 2-4.	47
Offset history for radiometer detector 2-5.	48
Radiometer noise flux versus band pass for filter 0 (chopper on, extended area source - order on curve labels is bias - gain)	49
Radiometer noise flux versus band pass for filter 0 (chopper on, extended area source - order on curve labels is bias - gain).	50
Radiometer noise flux versus band pass for filter 1 (chopper on, extended area source - order on curve labels is bias - gain).	51
Radiometer noise flux versus band pass for filter 1 (chopper on, extended area source - order on curve labels is bias - gain).	52
Radiometer noise flux versus band pass for filter 2 (chopper on, extended area source - order on curve labels is bias - gain).	53
Radiometer noise flux versus band pass for filter 2 (chopper on, extended area source - order on curve labels is bias - gain).	54
Radiometer noise flux versus band pass for filter 3 (chopper on, extended area source - order on curve labels is bias - gain).	55
Radiometer noise flux versus band pass for filter 3 (chopper on, extended area source - order on curve labels is bias - gain).	56
Radiometer noise flux versus band pass for filter 5 (chopper on, extended area source - order on curve labels is bias - gain).	57
Radiometer noise flux versus band pass for filter 5 (chopper on, extended area source - order on curve labels is bias - gain)	58
Radiometer noise flux versus band pass for filter 6 (chopper on, extended area source - order on curve labels is bias - gain)	
Radiometer noise flux versus band pass for filter 6 (chopper on, extended area source - order on curve labels is bias - gain).	60

61
62
63
54
55
55
56
56
57
58
58
59
59
70

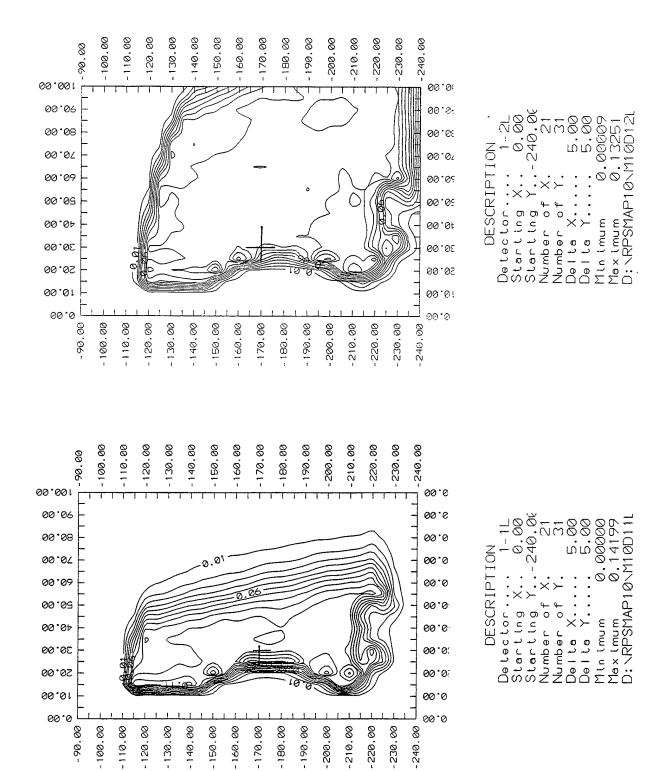
#### **FOREWORD**

The Cryogenic Infrared Radiance Instrumentation for Shuttle (CIRRIS 1A) program, sponsored by the Strategic Defense Initiative Organization (SDIO) and managed by the Geophysics Directorate of the USAF Phillips Laboratory, is a state-of-the-art cryogenically cooled instrument designed to observe the infrared spectrum of the earth's atmosphere. The Space Dynamics Laboratory at Utah State University (SDL/USU) was awarded contract no. F19628-81-C-0123 to participate as the prime contractor in this program. As part of this program, SDL designed, constructed, calibrated, tested, and integrated primary and support instruments for the CIRRIS 1A experiment. In addition, SDL personnel provided mission support and documentation, including flight crew training. CIRRIS 1A was launched on the space shuttle Discovery on 28 April 1991. All of the instruments operated as designed during the mission.

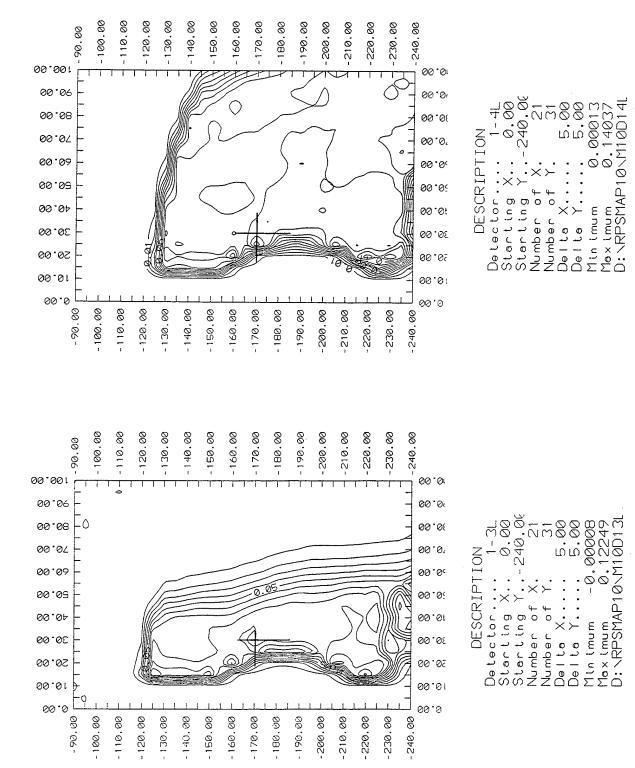
This report, submitted in compliance with CDRL 160, presents the results of the CIRRIS 1A post flight calibration. This document represents the current understanding of the CIRRIS 1A calibration accuracy and applicability to the data collected during the CIRRIS mission. Several drafts of this report were previously submitted for review; this document is the final submission. The calibration coefficients will continue to be refined as the flight data are further analyzed.

This document represents Volume 2 of the CIRRIS 1A Post Flight Calibration Final Report. This volume contains reduced data for various parameters for all of the detectors. The calibration approach and results are presented in Volume 1.

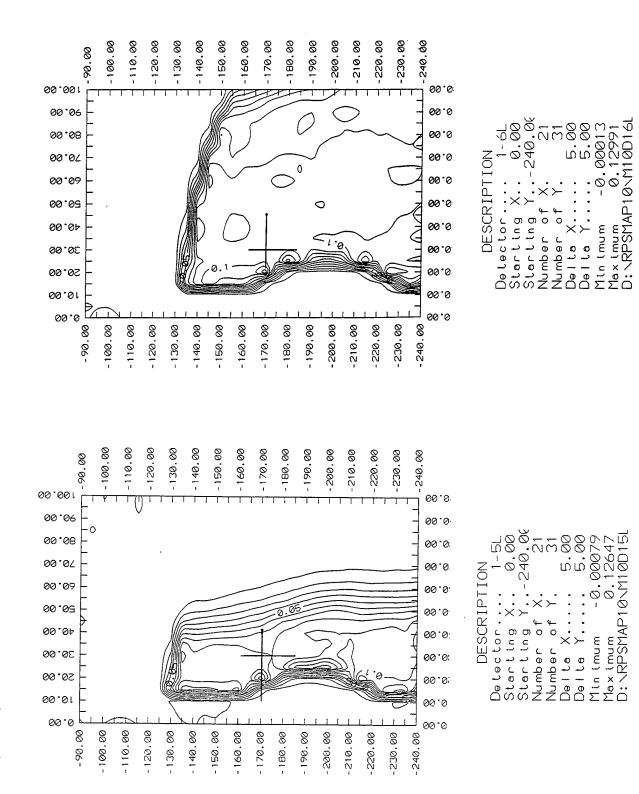
SDL/USU would like to acknowledge Boston College, Miranda Laboratories, and PhotoMetrics for alignment and pointing data, and coding of OPUS.



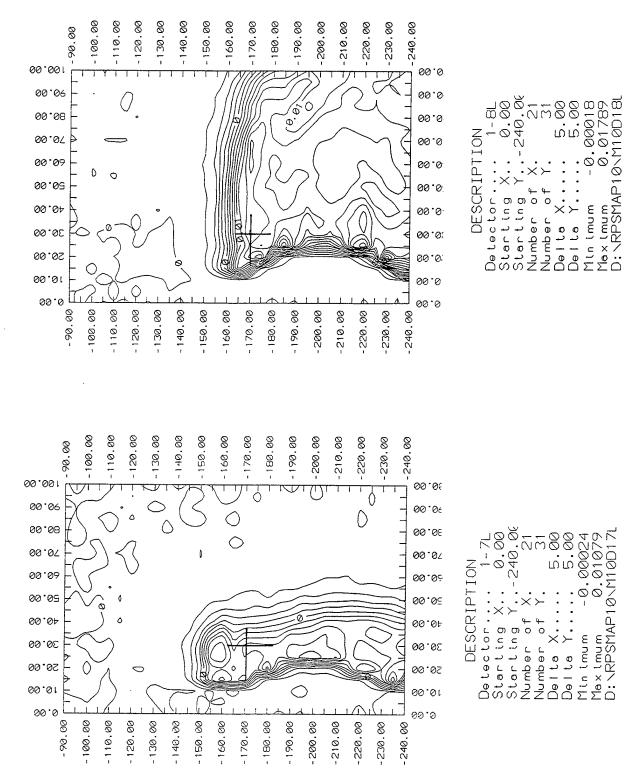
Jones source maps for radiometer detectors 1-1 and 1-2.



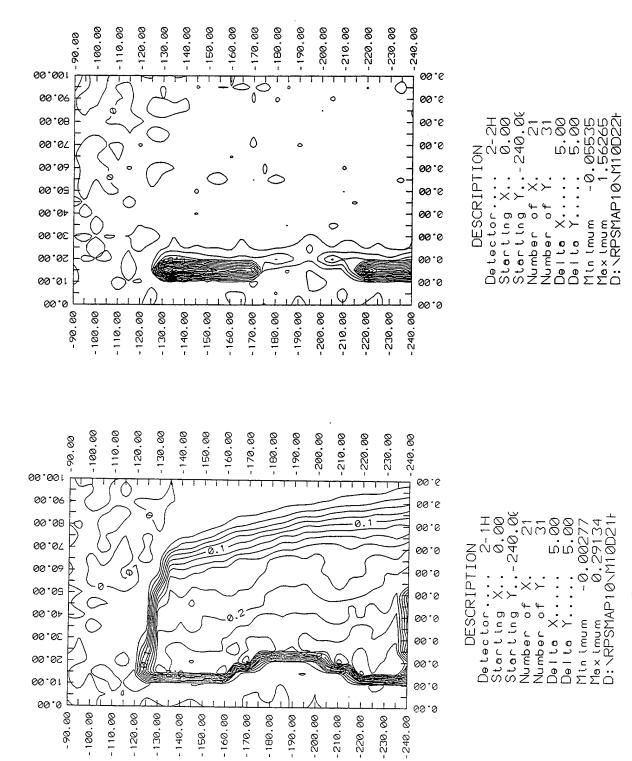
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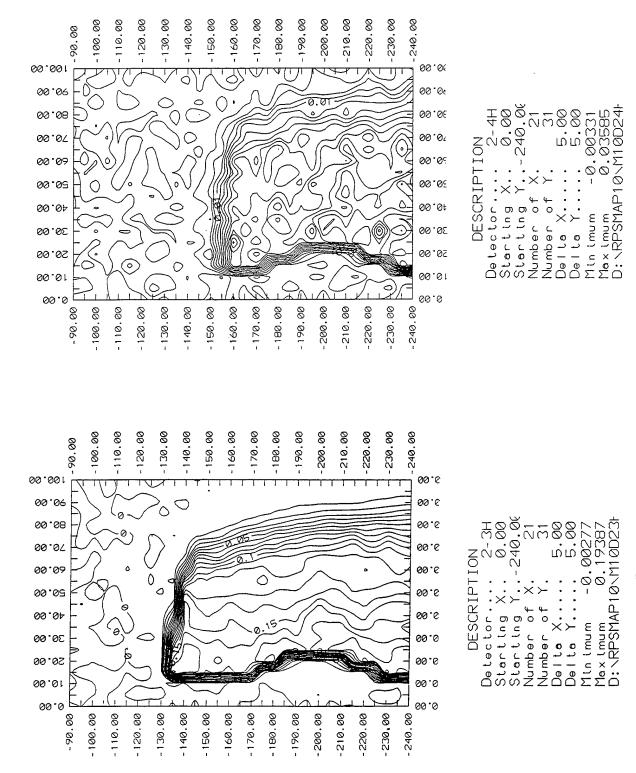
Jones source maps for radiometer detectors 1-5 and 1-6.



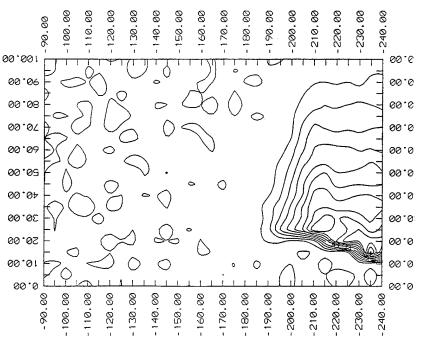
Jones source maps for radiometer detectors 1-7 and 1-8.



Jones source maps for radiometer detectors 2-1 and 2-2.



Jones source maps for radiometer detectors 2-3 and 2-4.



DESCRIPTION
Detector... 2-5H
Starting X.. 0.00
Starting Y..-240.06
Number of X. 21
Number of Y. 31
Delta X.... 5.00
Delta Y.... 5.00
Min tmum -0.00305
Maximum 0.13269
D:\RPSMAP10\M10D25

Jones source maps for radiometer detectors 2-5.

### CIRRIS 1A Radiometer Linearity Coefficients (focal plane 1, filter 0, bandpass, linear fit)

DET	BIAS	GAIN	A1	A2	S.D.	MIN. VOLT.	MAX. VOLT.
1-1 1-2 1-3 1-5 1-6 1-7 1-8 1-1 1-2 1-3 1-4	ні	HI	4.04044E+00 2.15022E+00 4.86650E+00 2.07024E+00 5.00050E+00 2.03032E+00 7.39075E+01 1.75018E+01 4.07042E-02 2.50027E-02 5.00054E-02 2.14022E-02 5.30055E-02	-4.06883E-01 -2.16524E-01 -4.90052E-01 -2.08483E-01 -5.03538E-01 -7.44237E+00 -1.76244E+00 -4.09890E-03 -2.51783E-03 -5.03565E-03 -2.15520E-03 -5.33764E-03	1.97368E-04 1.97925E-04 1.97816E-04 1.97037E-04 1.98077E-02 1.97930E-04 1.97691E-04 1.97782E-04 1.97397E-04 1.97737E-04 1.97737E-04	5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04	1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00
1-6 1-7 1-8 1-1 1-2 1-3 1-4 1-5	MED	LO	2.13023E-02 7.60085E-01 1.95020E-01 3.03414E+01 1.71432E+01 3.16675E+01 1.57333E+01 3.60025E+01	-2.14517E-03 -2.14517E-03 -1.65435E-02 -1.96384E-02 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	1.97491E-04 1.97162E-04 1.97798E-04 3.13351E-03 3.10408E-03 1.10090E-02 4.32499E-03 2.35026E-03	5.90900E-04 5.90900E-04 5.90900E-04 1.49600E-01 2.72600E-01 1.43500E-01 2.98000E-01	1.59300E+00 1.59300E+00 1.59300E+00 6.12700E-01 1.09300E+00 5.86800E-01 1.19200E+00 5.17200E-01
1-6 1-7 1-8 1-1 1-2 1-3 1-4 1-5	MED	HI	1.51775E+01 5.84064E+02 1.16936E+02 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	1.06077E-02 6.15571E-03 2.67001E-03 0.00000E+00 0.00000E+00 0.00000E+00	3.14700E-01 8.06100E-03 3.83000E-02 0.00000E+00 0.00000E+00 0.00000E+00	1.80100E+00 4.67200E-02 2.31100E-01 0.00000E+00 0.00000E+00 0.00000E+00
1-6 1-7 1-8 1-1 1-2 1-3 1-4 1-5	LO	LO	0.00000E+00 0.00000E+00 0.00000E+00 2.89243E+02 1.60492E+02 3.13617E+02 1.46450E+02 3.46726E+02	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 1.91450E-02 1.54137E-02 3.04576E-02 1.95774E-02	0.00000E+00 0.00000E+00 0.00000E+00 9.81800E-02 1.74400E-01 9.05800E-02 1.87300E-01 8.16700E-02	0.00000E+00 0.00000E+00 0.00000E+00 2.27600E+00 1.97400E+00 2.16500E+00 1.89400E+00
1-6 1-7 1-8 1-1 1-2 1-3 1-4 1-5 1-6 1-7	LO	ні	1.41526E+02 5.89601E+03 1.11848E+03 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	7.86006E-03 5.77316E-02 3.80401E-02 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	2.92700E-01 1.81800E-02 3.75300E-02 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	2.25100E+00 1.32600E+00 2.17600E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00

## CIRRIS 1A Radiometer Linearity Coefficients (focal plane 1, filter 1, bandpass, linear fit)

DET	BIAS	GAIN	A1	A2	S.D.	MIN. VOLT.	MAX. VOLT.
1-1 1-2 1-3 1-4 1-5 1-6 1-7	HI	LO	2.80030E+01 1.55017E+01 3.97043E+01 1.55017E+01 4.14044E+01 1.67018E+01 6.27063E+02 1.25014E+02	-2.81996E+00 -1.56104E+00 -3.99830E+00 -1.56104E+00 -4.16949E+00 -1.68191E+00 -6.31440E+01 -1.25894E+01	1.97384E-04 1.97421E-04 1.97423E-04 1.97421E-04 1.97512E-04 1.97469E-04 1.98031E-04 1.97146E-04	5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04	1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00
1-1 1-2 1-3 1-4 1-5 1-6 1-7	HI	HI	2.80033E-01 1.59017E-01 3.90040E-01 1.48016E-01 4.20045E-01 1.62018E-01 6.40069E+00	-2.82011E-02 -1.60134E-02 -3.92769E-02 -1.49055E-02 -4.22995E-02 -1.63155E-02 -6.44564E-01	1.96884E-04 1.97363E-04 1.97798E-04 1.97410E-04 1.97428E-04 1.97374E-04 1.97397E-04	5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04	1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00
1-1 1-2 1-3 1-4 1-5 1-6 1-7	MED	ΓÓ	1.35015E+00 2.35997E+02 1.30052E+02 2.93441E+02 1.25395E+02 3.26714E+02 1.31515E+02 5.34756E+03 9.20928E+02	-1.35968E-01 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	1.96995E-04 2.79648E-03 3.13445E-03 2.63949E-03 2.83262E-03 2.26316E-03 3.78212E-03 4.22618E-03	5.90900E-04 9.06500E-02 1.64400E-01 7.30400E-02 1.70000E-01 6.56100E-02 1.61400E-01 4.02300E-03	1.59300E+00 2.07600E-01 3.76600E-01 1.67100E-01 3.90100E-01 1.50100E-01 3.71200E-01 9.18200E-03
1-1 1-2 1-3 1-4 1-5 1-6 1-7	MED	HI	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	3.87946E-03 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	2.28700E-02 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	5.28300E-02 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
1-1 1-2 1-3 1-4 1-5 1-6 1-7	LO	LO	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
1-8 1-1 1-2 1-3 1-4 1-5 1-6 1-7	LO	HI	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00

### CIRRIS 1A Radiometer Linearity Coefficients (focal plane 1, filter 2, bandpass, linear fit)

DET	BIAS	GAIN	A1	A2	S.D.	MIN. VOLT.	MAX. VOLT.
1-1 1-2 1-3 1-4 1-5 1-6 1-7 1-8	ΗI	LO	1.33714E+01 7.25076E+00 1.80019E+01 6.90067E+00 1.82020E+01 7.40082E+00 2.99033E+02 6.00063E+01	-1.34651E+00 -7.30156E-01 -1.81282E+00 -6.94871E-01 -1.83299E+00 -7.45290E-01 -3.01135E+01 -6.04266E+00	1.97620E-04 1.97613E-04 1.97455E-04 1.98314E-04 1.97327E-04 1.97228E-04 1.97265E-04 1.97633E-04	5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04	1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00
1-1 1-2 1-3 1-4 1-5 1-6 1-7	HI	ΗI	1.38014E-01 7.20077E-02 1.80019E-01 7.10068E-02 1.87020E-01 7.40080E-02 3.00033E+00 6.50067E-01	-1.38979E-02 -7.25131E-03 -1.81278E-02 -7.15008E-03 -1.88330E-02 -7.45275E-03 -3.02140E-01 -6.54615E-02	1.97872E-04 1.97468E-04 1.97757E-04 1.98484E-04 1.97654E-04 1.97410E-04 1.97367E-04 1.97751E-04	5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04	1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00
1-1 1-2 1-3 1-4 1-5 1-6 1-7 1-8	MED	ΓO	1.11696E+02 6.13877E+01 1.31834E+02 5.77732E+01 1.43980E+02 5.99653E+01 2.55910E+03 4.42348E+02	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	3.21374E-03 3.01686E-03 4.19463E-03 8.64858E-03 1.38927E-03 5.20095E-03 1.60595E-03 3.37276E-03	1.16300E-01 2.13800E-01 9.78100E-02 2.25400E-01 9.06200E-02 4.03800E-01 9.25800E-03 5.17800E-02	6.17400E-01 1.12600E+00 5.22300E-01 1.19600E+00 4.79400E-01 1.81500E+00 4.23100E-02 2.42900E-01
1-1 1-2 1-3 1-4 1-5 1-6 1-7	MED	HI	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
1-1 1-2 1-3 1-4 1-5 1-6 1-7	LO	ΓO	1.04860E+03 5.78827E+02 1.26108E+03 5.34755E+02 1.33989E+03 5.64736E+02 2.32690E+04 4.01611E+03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	9.60681E-03 1.80986E-03 5.18505E-03 4.64426E-03 6.63744E-03 5.48157E-03 4.17668E-03 5.35184E-03	1.02700E-01 1.87400E-01 8.61500E-02 1.98000E-01 7.98600E-02 3.00000E-01 7.08400E-03 4.09500E-02	1.11300E+00 2.03100E+00 9.31900E-01 2.19400E+00 8.74100E-01 2.08800E+00 5.03600E-02 2.92500E-01
1-1 1-2 1-3 1-4 1-5 1-6 1-7 1-8	LO	HI	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00

### CIRRIS 1A Radiometer Linearity Coefficients (focal plane 1, filter 3, bandpass, linear fit)

DET	BIAS	GAIN	A1	A2	S.D.	MIN. VOLT.	MAX. VOLT.
1-1 1-3 1-4 1-5 1-7 1-8 1-2 1-3 1-5 1-6	ні	HI	9.24095E+00 5.10054E+00 1.19013E+01 4.72049E+00 1.18013E+01 4.85057E+00 2.00020E+02 4.20044E+01 1.00011E-01 5.50060E-02 1.28014E-01 5.00054E-02 1.26014E-01 5.10053E-02	-9.30558E-01 -5.13630E-01 -1.19850E+00 -4.75355E-01 -1.18845E+00 -4.88485E-01 -2.01415E+01 -4.22984E+00 -1.00713E-02 -5.53925E-03 -1.28911E-02 -5.03565E-03 -1.26902E-02	1.97804E-04 1.97565E-04 1.97282E-04 1.97683E-04 1.97075E-04 1.96858E-04 1.97709E-04 1.97397E-04 1.97351E-04 1.97397E-04 1.97397E-04	5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04	1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00
1-7 1-8 1-1 1-2 1-3 1-4 1-5	MED	LO	2.05020E+00 4.60049E-01 7.64607E+01 4.33221E+01 8.56132E+01 3.96118E+01 9.16161E+01	-5.13625E-03 -2.06449E-01 -4.63273E-02 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	1.97680E-04 1.98214E-04 1.97570E-04 4.13072E-03 2.41812E-03 1.11518E-02 2.80515E-03 4.00900E-03	5.90900E-04 5.90900E-04 5.90900E-01 1.24000E-01 2.24700E-01 2.49300E-01 1.04700E-01	1.59300E+00 1.59300E+00 1.59300E+00 8.06100E-01 1.42900E+00 7.20600E-01 1.56700E+00 6.73900E-01
1-6 1-7 1-8 1-1 1-2 1-3 1-4 1-5	MED	ні	3.93271E+01 1.66104E+03 3.06200E+02 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	7.89901E-03 2.68353E-03 3.60119E-03 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	2.53600E-01 5.92200E-03 3.09200E-02 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	1.58100E+00 3.73200E-02 2.01200E-01 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
1-6 1-7 1-8 1-1 1-2 1-3 1-4 1-5 1-6	LO	LO	0.00000E+00 0.00000E+00 7.38846E+02 4.09153E+02 8.39453E+02 3.71243E+02 8.91141E+02 3.74388E+02	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 2.16146E-02 6.01879E-04 1.66699E-02 4.36598E-03 2.44889E-02 6.49464E-03	0.00000E+00 0.00000E+00 0.00000E+00 1.38100E-01 2.46500E-01 1.21900E-01 2.73600E-01 1.15000E-01 2.74600E-01	0.00000E+00 0.00000E+00 0.00000E+00 2.03100E+00 2.17100E+00 2.27900E+00 2.39200E+00 2.15500E+00 2.38600E+00
1-7 1-8 1-1 1-2 1-3 1-4 1-5 1-6 1-7 1-8	LO	ні	1.52544E+04 2.8828E+03 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	9.91429E-03 2.98728E-03 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	6.59300E-01 6.59300E-03 3.57400E-02 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	1.58200E-01 8.61300E-01 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00

# CIRRIS 1A Radiometer Linearity Coefficients (focal plane 1, filter 5, bandpass, linear fit)

DET	BIAS	GAIN	A1	A2	S.D.	MIN. VOLT.	MAX. VOLT.
1-1 1-2 1-3 1-4 1-5 1-6	HI	LO	4.70050E+00 2.62027E+00 5.70063E+00 2.44027E+00 5.90067E+00 2.45028E+00 9.20098E+01	-4.73345E-01 -2.63858E-01 -5.74074E-01 -2.45745E-01 -5.94225E-01 -2.46758E-01 -9.26551E+00	1.97572E-04 1.97887E-04 1.97235E-04 1.97171E-04 1.97075E-04 1.96919E-04 1.97514E-04	5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04	1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00
1-8 1-1 1-2	HI	HI	2.10022E+01 5.15055E-02 2.95031E-02 6.30071E-02	-2.11492E+00 -5.18668E-03 -2.97097E-03 -6.34508E-03	1.97709E-04 1.97471E-04 1.97681E-04 1.97119E-04	5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04	1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00
1-3 1-4 1-5 1-6 1-7			2.70029E-02 6.50073E-02 2.70029E-02 9.70109E-01	-2.71922E-03 -6.54648E-03 -2.71922E-03 -9.76943E-02	1.97529E-04 1.97529E-04 1.97529E-04 1.97545E-04	5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04	1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00
1-8 1-1 1-2 1-3 1-4 1-5	MED	LO	2.45026E-01 3.76153E+01 2.16678E+01 3.99215E+01 1.96088E+01 4.42227E+01	-2.46745E-02 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	6.88971E-03 5.086421E-03 9.31075E-03 5.30408E-03 8.62833E-03	1.31600E-01 2.31200E-01 1.21600E-01 2.56300E-01 1.10300E-01	6.84200E-01 1.19100E+00 6.41800E-01 1.31700E+00 5.79700E-01
1-6 1-7 1-8 1-1	MED	HI	1.90596E+01 7.68690E+02 1.52497E+02 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	6.37522E-03 9.28259E-03 6.48132E-03 0.00000E+00	2.64900E-01 6.50100E-03 3.15900E-02 0.00000E+00	1.35700E+00 3.35500E-02 1.67900E-01 0.00000E+00
1-2 1-3 1-4 1-5 1-6			0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
1-7 1-8 1-1 1-2 1-3 1-4	LO	LO	0.00000E+00 0.00000E+00 3.61336E+02 2.06561E+02 3.94388E+02 1.86299E+02	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 9.55926E-03 4.32410E-03 1.90992E-02 8.65719E-03	0.00000E+00 0.00000E+00 1.17700E-01 2.06700E-01 1.09000E-01 2.29400E-01	0.00000E+00 2.19700E+00 2.62000E+00 2.41600E+00 2.32800E+00
1-5 1-6 1-7 1-8 1-1 1-2	LO	HI	4.32396E+02 1.83914E+02 7.15619E+03 1.42175E+03 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	1.42712E-02 9.96345E-03 9.91052E-03 3.34997E-03 0.00000E+00 0.00000E+00	9.88200E-02 2.35500E-01 5.85000E-03 2.97100E-02 0.00000E+00 0.00000E+00	2.19900E+00 2.34700E+00 2.10900E-01 1.07600E+00 0.00000E+00 0.00000E+00
1-4 1-5 1-6 1-7 1-8			0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00

# CIRRIS 1A Radiometer Linearity Coefficients (focal plane 1, filter 6, bandpass, linear fit)

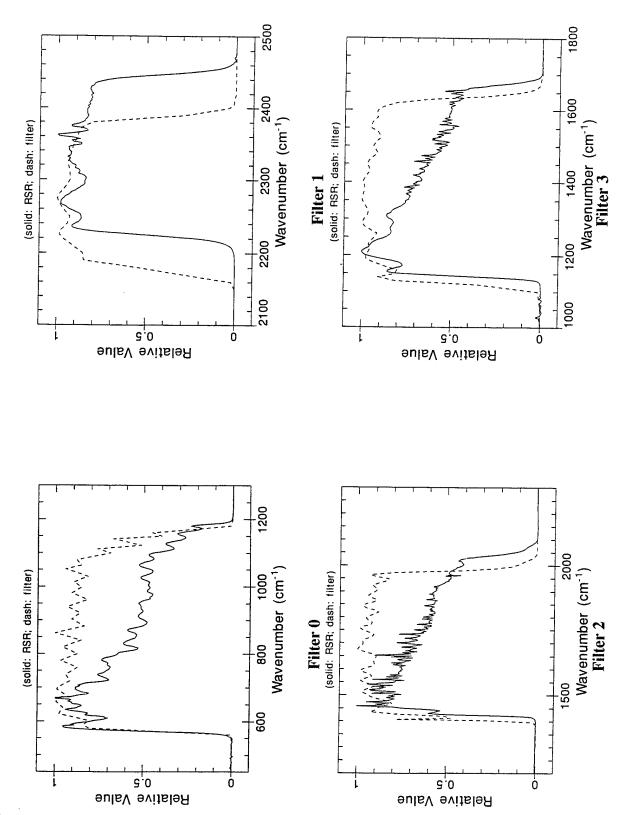
DET	BIAS	GAIN	A1	A2	S.D.	MIN. VOLT.	MAX. VOLT.
1-1 1-2 1-3 1-4 1-5 1-6 1-7 1-8 1-1 1-2	HI	HI	2.74029E+00 1.43015E+00 3.07035E+00 1.40015E+00 3.58042E+00 1.35015E+01 1.18013E+01 2.85028E-02 1.70018E-02 3.20034E-02	-2.75951E-01 -1.44020E-01 -3.09198E-01 -1.40995E-01 -3.60570E-01 -1.35968E-01 -5.13611E+00 -1.18845E+00 -2.87014E-03 -1.71211E-03 -3.22278E-03	1.97556E-04 1.97396E-04 1.97079E-04 1.97646E-04 1.96903E-04 1.96995E-04 1.98007E-04 1.97075E-04 1.98150E-04 1.97481E-04 1.97547E-04	5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04	1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00
1-4 1-5 1-6 1-7 1-8 1-1 1-3 1-4 1-5	MED	LO	1.75020E-02 3.75039E-02 1.40015E-02 5.30059E-01 1.25014E-01 2.09710E+01 1.17344E+01 2.17983E+01 1.11109E+01 2.60926E+01	-1.76257E-03 -3.77662E-03 -1.41000E-03 -5.33787E-02 -1.25892E-02 0.00000E+00 0.00000E+00 0.00000E+00	1.96884E-04 1.97761E-04 1.97258E-04 1.97195E-04 1.97349E-04 2.34889E-02 1.97782E-02 1.91173E-02 2.06169E-02	5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-01 1.08100E-01 2.01900E-01 1.04800E-01 2.12000E-01	1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 6.76200E-01 1.22000E+00 6.53400E-01 1.29100E+00
1-6 1-7 1-8 1-1 1-2 1-3 1-4 1-5	MED	ні	1.10344E+01 4.13411E+02 8.49784E+01 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	1.77302E-02 3.33182E-02 3.41095E-02 2.21705E-02 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	8.87200E-02 4.05000E-01 9.18700E-03 4.85000E-02 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	5.47200E-01 1.87000E+00 4.79800E-02 2.38800E-01 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
1-6 1-7 1-8 1-1 1-2 1-3 1-4 1-5	LO	LO	0.00000E+00 0.00000E+00 0.00000E+00 2.37092E+02 1.25615E+02 2.46703E+02 1.19401E+02 2.91423E+02 1.12079E+02	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 5.11210E-02 3.61761E-02 5.46204E-02 4.34231E-02 5.23084E-02 3.31469E-02	0.00000E+00 0.00000E+00 0.00000E+00 1.31600E-01 1.76800E-01 1.26100E-01 1.82600E-01 1.39300E-01 2.71300E-01	0.00000E+00 0.00000E+00 0.00000E+00 2.37400E+00 2.33900E+00 2.29800E+00 2.46300E+00 1.94100E+00 2.00200E+00
1-7 1-8 1-1 1-2 1-3 1-4 1-5 1-6 1-7	LO	HI	4.63155E+03 9.07261E+02 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	4.69627E-02 5.90044E-02 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	1.48200E-02 3.45300E-02 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	4.47100E-01 2.26300E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00

# CIRRIS 1A Radiometer Linearity Coefficients (focal plane 1, filter 7, bandpass, linear fit)

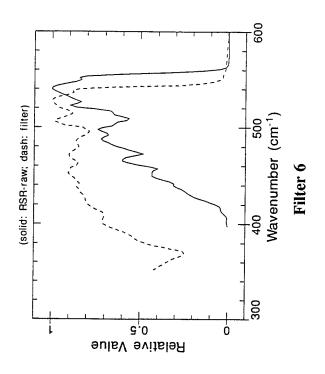
DET	BIAS	GAIN	A1	A2	S.D.	MIN. VOLT.	MAX. VOLT.
1-1 1-2 1-3 1-4 1-5 1-6 1-7	HI	LO	4.93058E+00 2.59029E+00 6.10067E+00 2.45028E+00 6.28071E+00 2.48528E+00 1.00010E+02 2.27022E+01	-4.96540E-01 -2.60854E-01 -6.14355E-01 -2.46758E-01 -6.32495E-01 -2.50278E-01 -1.00708E+01 -2.28602E+00	1.96893E-04 1.97106E-04 1.97291E-04 1.96919E-04 1.97080E-04 1.97120E-04 1.98138E-04 1.98375E-04	5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04	1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00
1-1 1-2 1-3 1-4 1-5 1-6 1-7	HI	ΗI	5.20054E-02 2.87031E-02 6.35065E-02 2.53027E-02 6.53071E-02 2.65027E-02 1.05011E+00 2.40026E-01	-5.23694E-03 -2.89046E-03 -6.39504E-03 -2.54804E-03 -6.57660E-03 -2.66882E-03 -1.05746E-01 -2.41713E-02	1.97785E-04 1.97414E-04 1.97887E-04 1.97436E-04 1.977350E-04 1.97716E-04 1.97319E-04	5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04 5.90900E-04	1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00 1.59300E+00
1-1 1-2 1-3 1-4 1-5 1-6 1-7	MED	LO	4.02599E+01 2.22169E+01 4.40717E+01 1.98978E+01 4.77429E+01 1.98131E+01 8.26340E+02 1.57822E+02	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	8.52661E-03 5.83285E-03 6.76410E-03 5.45587E-03 6.33491E-03 1.25351E-02 5.55579E-03 1.19112E-02	7.12500E-02 1.30000E-01 6.50800E-02 1.44500E-01 5.99500E-02 1.47800E-01 3.52800E-03 1.76200E-02	1.59300E+00 2.64800E-01 4.80900E-01 2.41900E-01 5.36200E-01 2.23200E-01 1.56200E+00 3.73800E-02 1.94800E-01
1-1 1-2 1-3 1-4 1-5 1-6 1-7	MED	HI	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
1-1 1-2 1-3 1-4 1-5 1-6 1-7	LO	LO	3.95411E+02 2.15415E+02 4.34721E+02 1.93037E+02 4.65179E+02 1.92070E+02 8.08514E+03 1.50470E+03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	4.25188E-02 7.30950E-03 4.95090E-02 2.57777E-02 4.67937E-02 4.97299E-03 3.38883E-02 1.28024E-02	4.12300E-02 7.50800E-02 3.74800E-02 8.22200E-02 3.53400E-02 2.92000E-01 6.94700E-03 3.69300E-02	2.11700E+00 2.17200E+00 1.92600E+00 2.42500E+00 1.80100E+00 2.44300E+00 4.71200E-01 2.12600E+00
1-1 1-2 1-3 1-4 1-5 1-6 1-7 1-8	LO	HI	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00

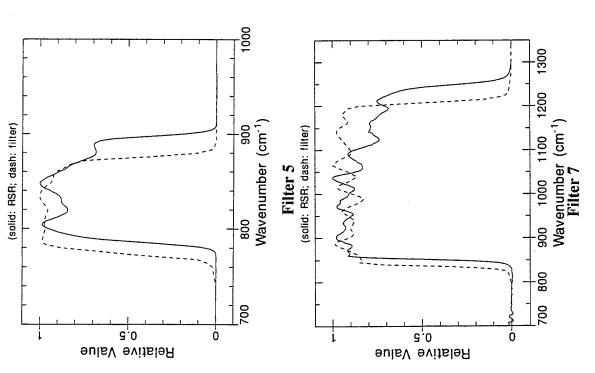
# CIRRIS 1A Radiometer Linearity Coefficients (focal plane 2, bandpass, linear fit)

DET	BIAS	GAIN	A1	A2	S.D.	MIN. VOLT.	MAX. VOLT.
2-1 2-2 2-3 2-4 2-5	HI	LO	7.41184E+01 6.88387E+01 9.80041E+01 6.90045E+02 4.39361E+02	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	5.88644E-02 5.85583E-02 5.52881E-02 5.53125E-02	6.32100E-04 2.58900E-03 1.64700E-04 3.36700E-04	6.68600E-02 7.09700E-02 5.03700E-02 7.23500E-03
2-1 2-2 2-3 2-4 2-5	HI	HI	7.23608E-01 6.90780E-01 9.76887E-01 6.86356E+00 4.41210E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	4.58320E-02 5.86193E-02 8.50120E-03 4.74408E-02 5.43467E-02	3.90800E-05 1.15300E-02 1.08200E+00 1.65800E-02 6.78200E-03	1.12400E-02 1.19700E+00 2.16200E+00 8.78600E-01 7.22400E-01
2-1 2-2 2-3 2-4 2-5	MED	LO	8.12429E+02 8.43696E+02 1.20446E+03 6.68579E+03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	5.66832E-02 0.00000E+00 0.00000E+00 0.00000E+00	4.64700E-03 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	6.46900E-01 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
2-1 2-2 2-3 2-4 2-5	MED	HI	3.67135E+03 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
2-1 2-2 2-3 2-4 2-5	LO	LO	0.00000E+00 7.57704E+03 7.06154E+03 9.33072E+03 5.96692E+04 3.10857E+04	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
2-1 2-2 2-3 2-4 2-5	LO	HI	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00

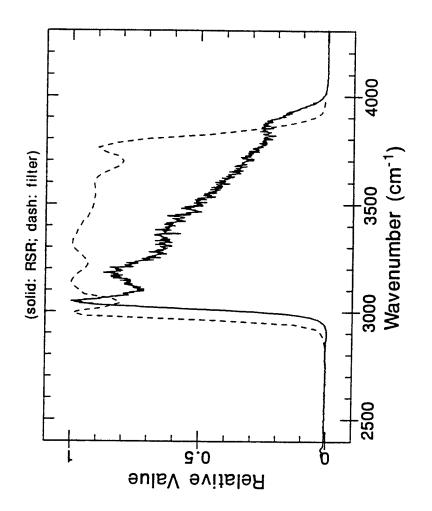


Relative spectral response for radiometer detector 1-4.

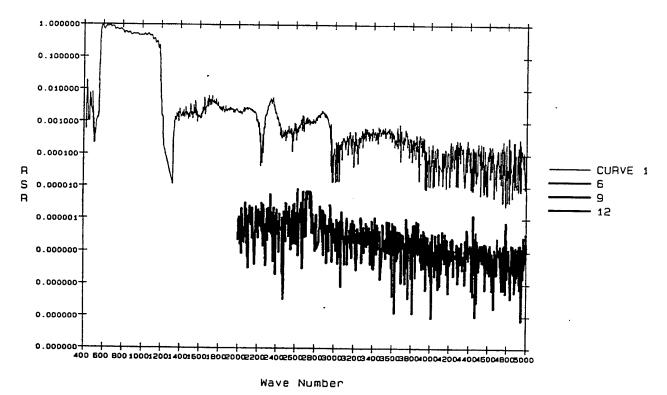




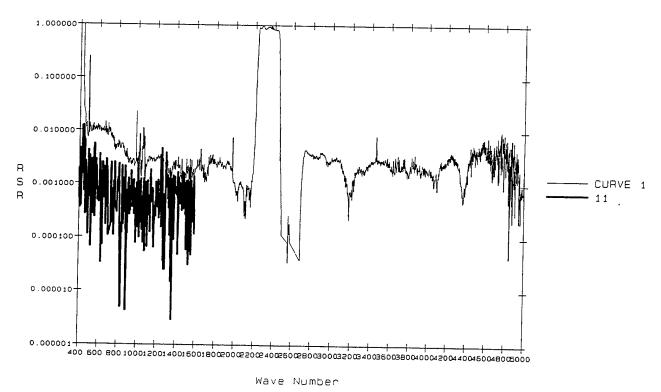
Relative spectral response for radiometer detector 1-4 (cont).



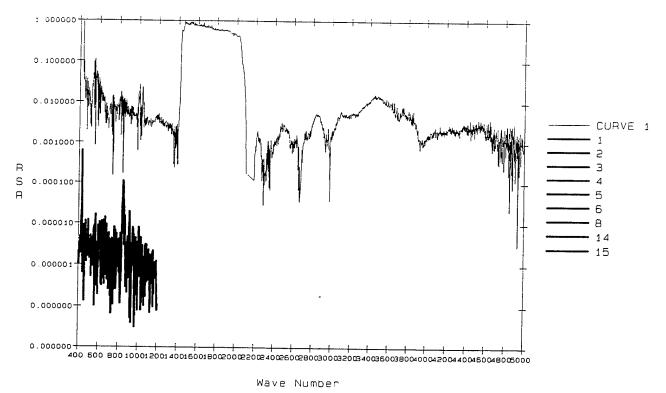
Relative spectral response for radiometer focal plane 2.



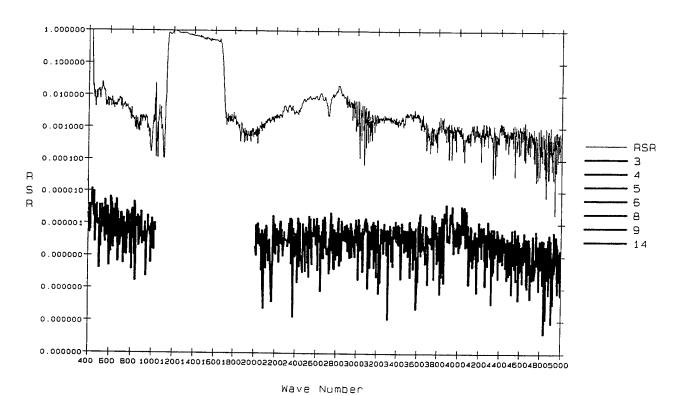
Radiometer out-of-band rejection, focal plane 1, filter 0.



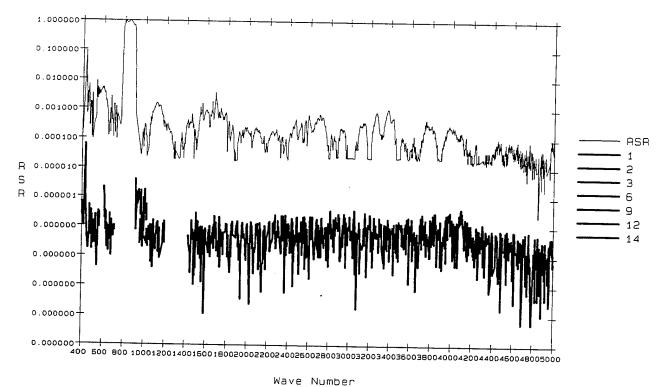
Radiometer out-of-band rejection, focal plane 1, filter 1.



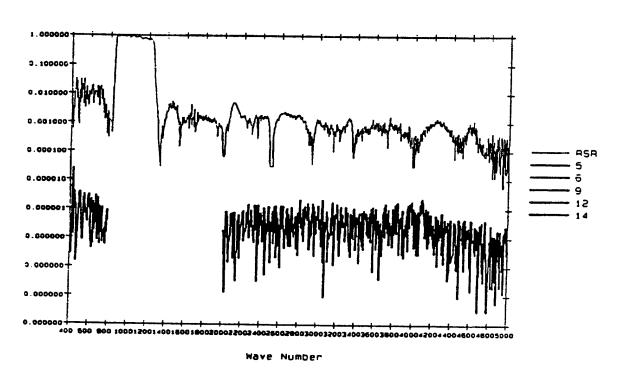
Radiometer out-of-band rejection, focal plane 1, filter 2.



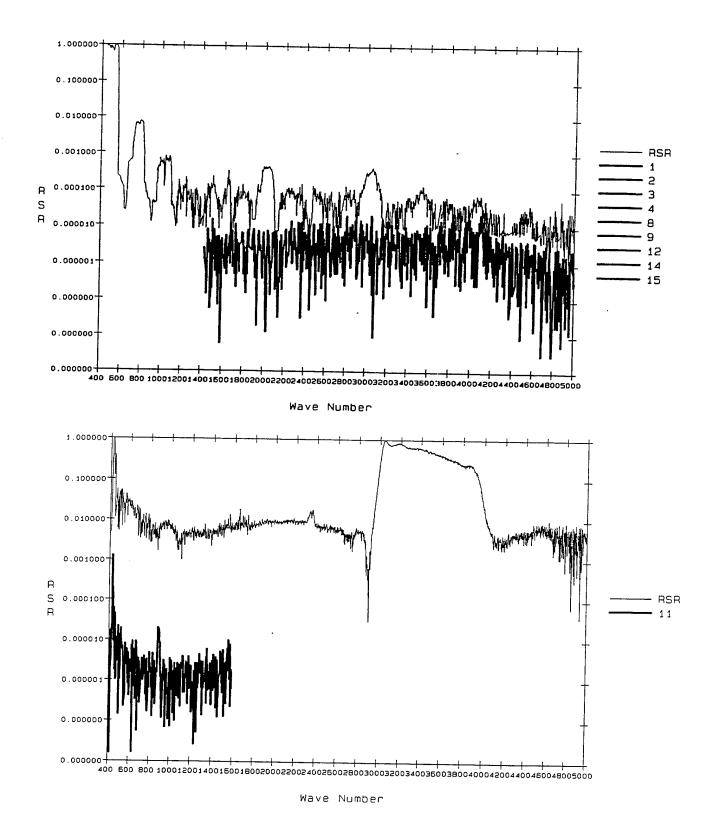
Radiometer out-of-band rejection, focal plane 1, filter 3.



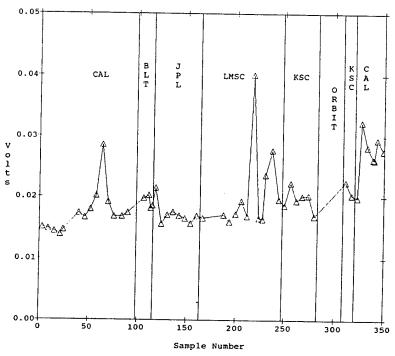
Radiometer out-of-band rejection, focal plane 1, filter 5.



Radiometer out-of-band rejection, focal plane 1, filter 7.

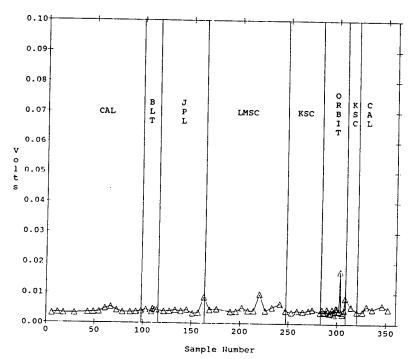


Radiometer out-of-band rejection, focal plane 2.

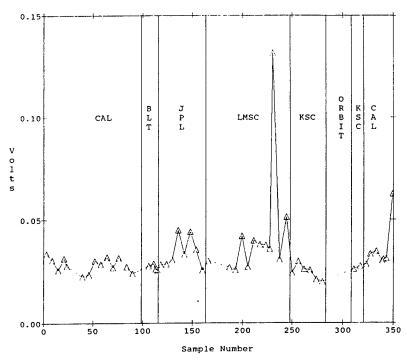


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

#### **Chopper Off**

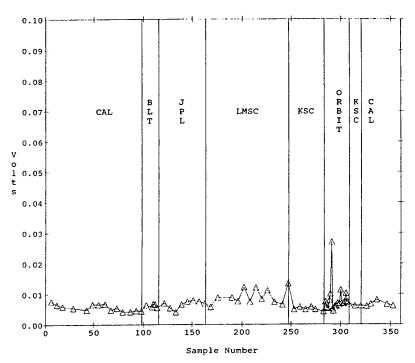


RMS noise history for radiometer detector 1-1.



Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

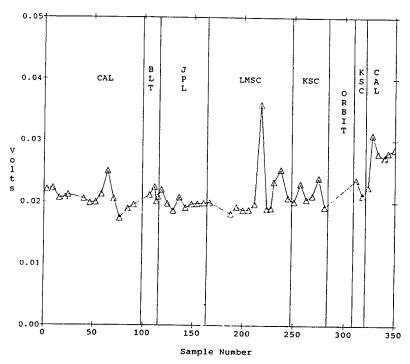
#### **Chopper Off**



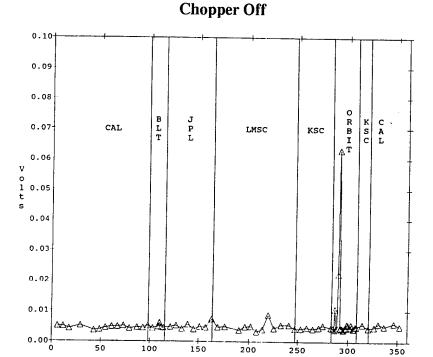
Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

**Chopper On** 

RMS noise history for radiometer detector 1-2.

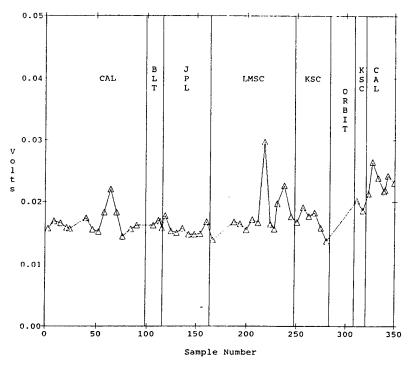


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.



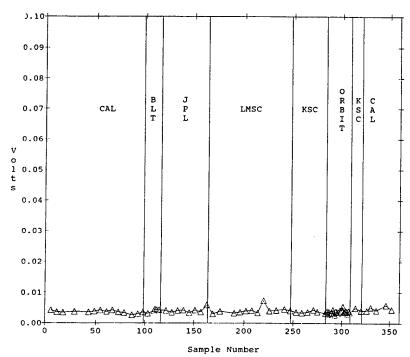
### RMS noise history for radiometer detector 1-3.

Sample Number



Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

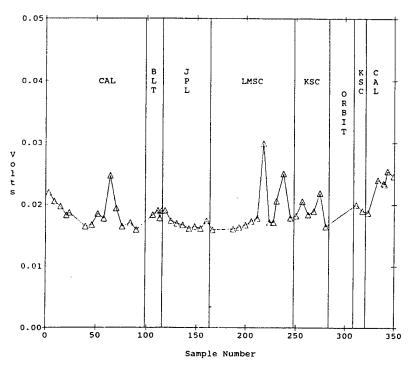




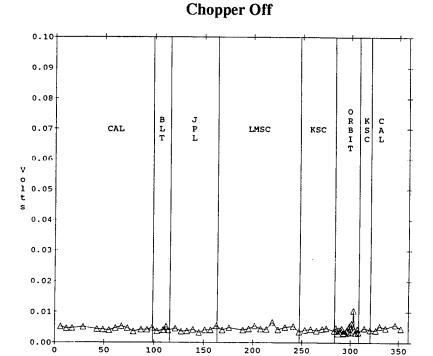
Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

**Chopper On** 

RMS noise history for radiometer detector 1-4.



Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.



Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

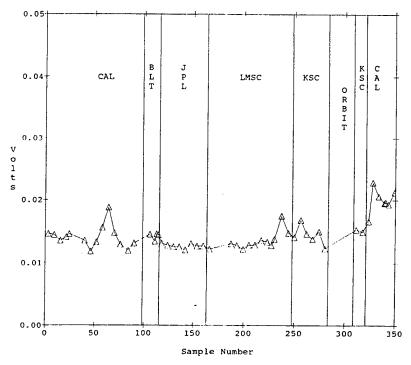
100

#### Chopper On

Sample Number

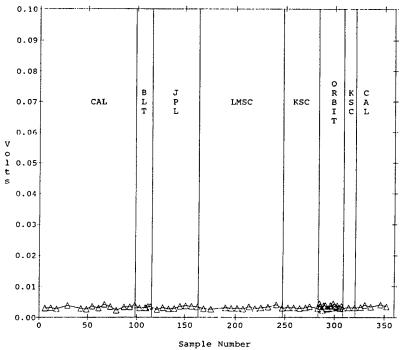
250

RMS noise history for radiometer detector 1-5.



Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

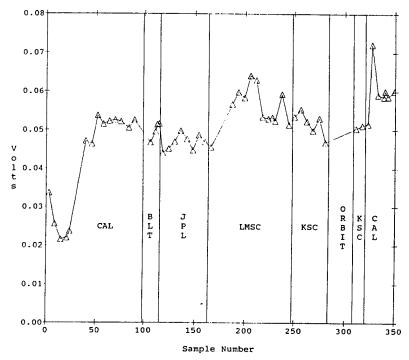




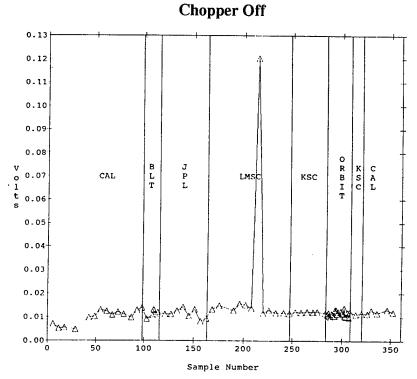
Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

**Chopper On** 

RMS noise history for radiometer detector 1-6.



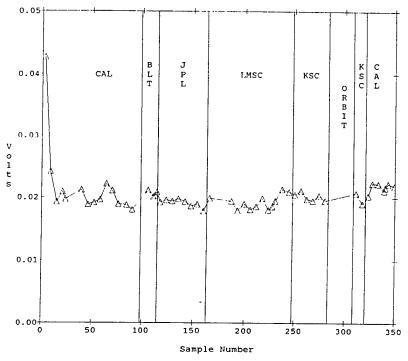
Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.



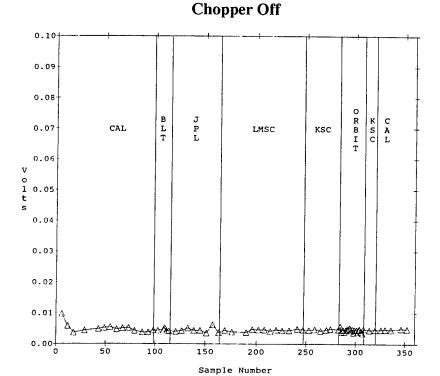
Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

#### Chopper On

RMS noise history for radiometer detector 1-7.

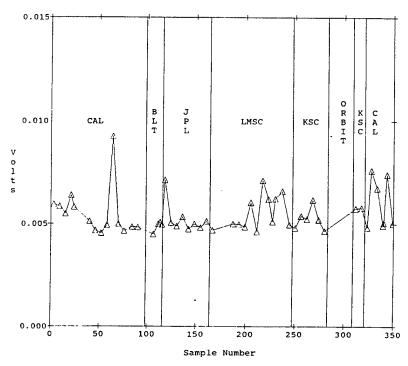


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

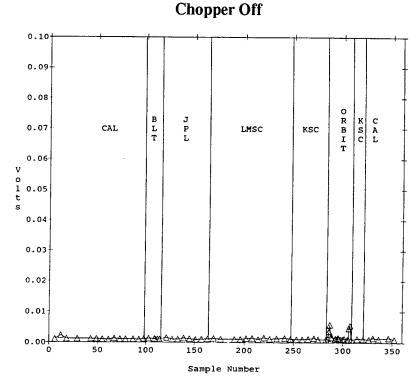


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

## RMS noise history for radiometer detector 1-8.



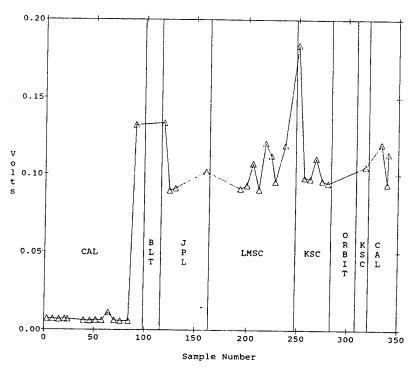
Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.



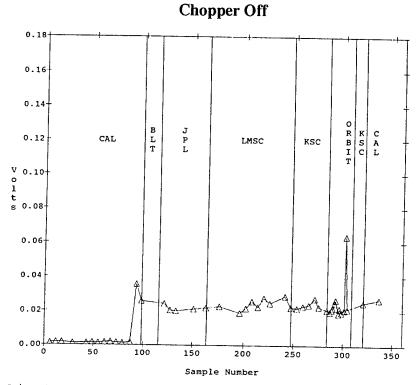
Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

Chopper On

RMS noise history for radiometer detector 2-1.

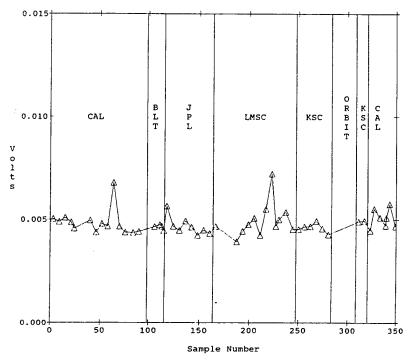


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

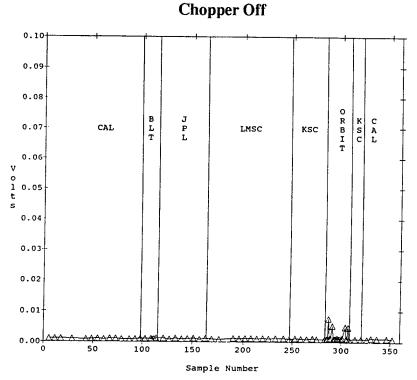


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

RMS noise history for radiometer detector 2-2.



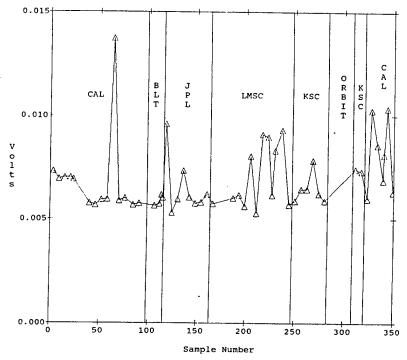
Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.



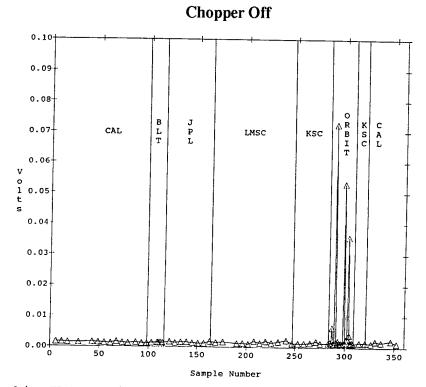
Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

Chopper On

RMS noise history for radiometer detector 2-3.

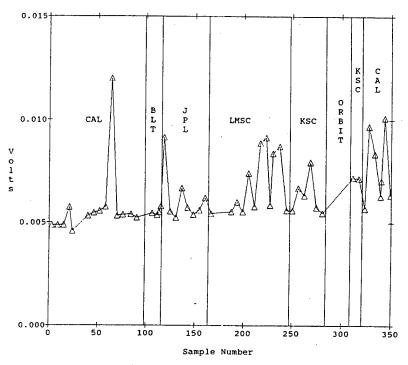


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

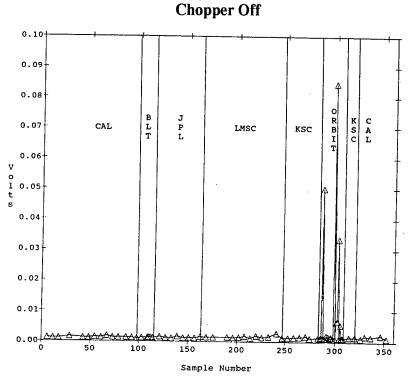


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

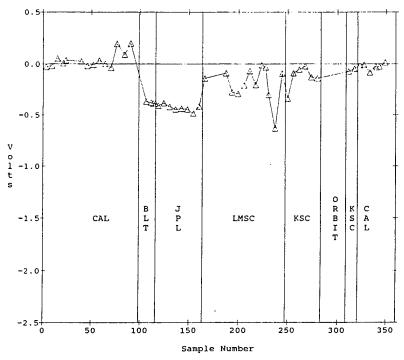
## RMS noise history for radiometer detector 2-4.



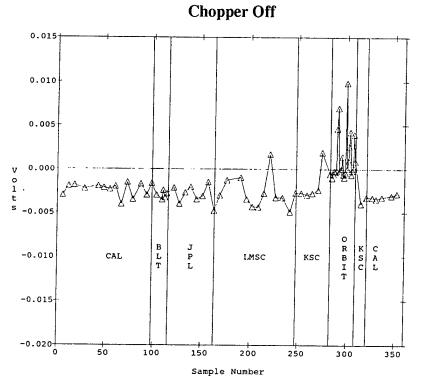
Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.



# RMS noise history for radiometer detector 2-5.

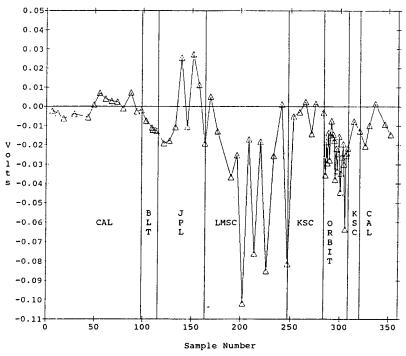


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

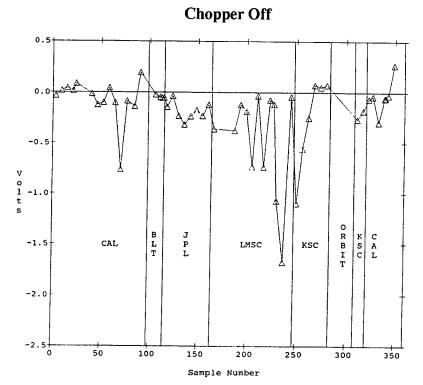


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

## Offset history for radiometer detector 1-1.

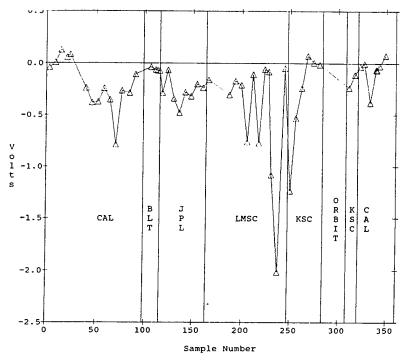


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

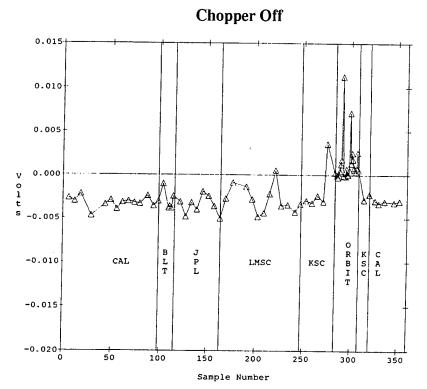


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

## Offset history for radiometer detector 1-2.

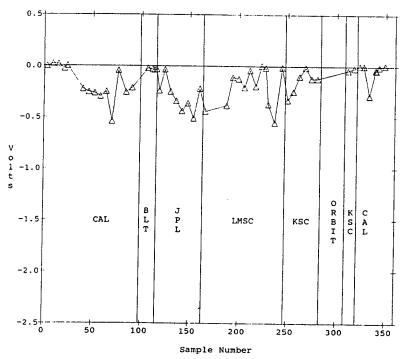


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

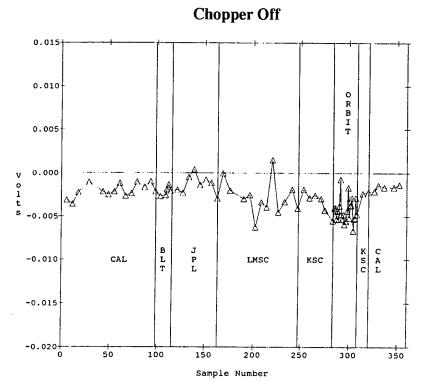


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

### Offset history for radiometer detector 1-3.

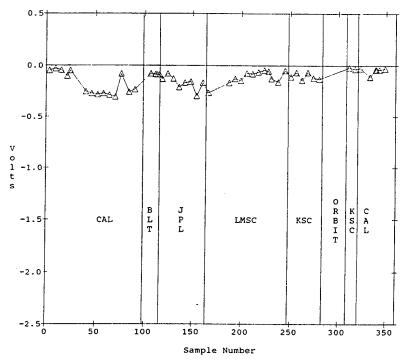


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

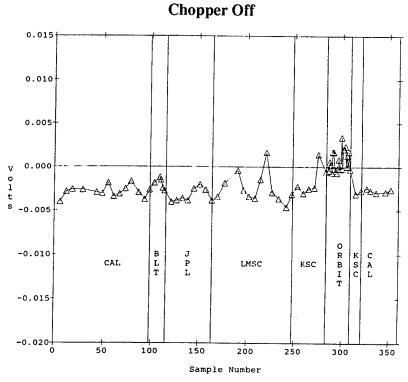


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

# Offset history for radiometer detector 1-4.

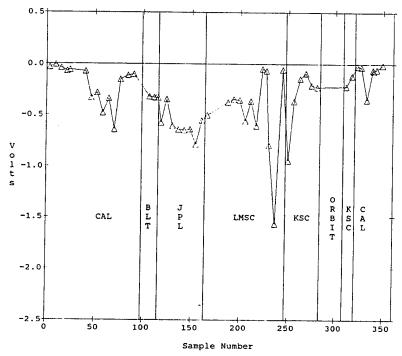


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

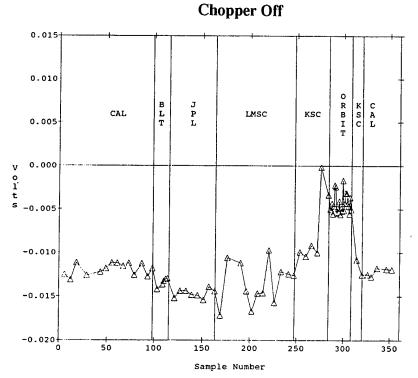


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

## Offset history for radiometer detector 1-5.



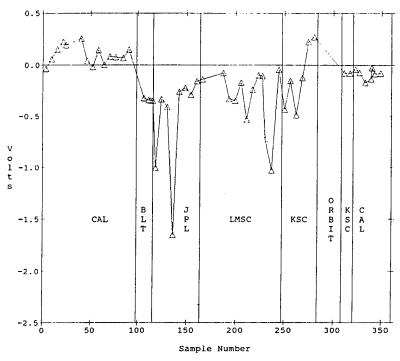
Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.



Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

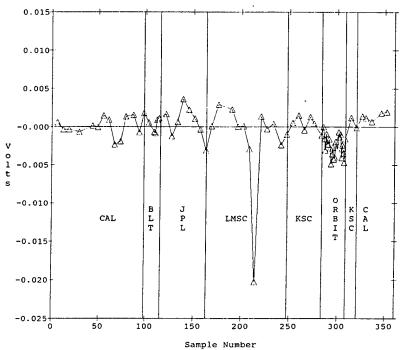
Chopper On

Offset history for radiometer detector 1-6.



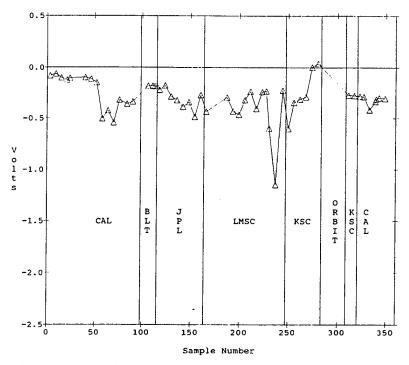
Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.





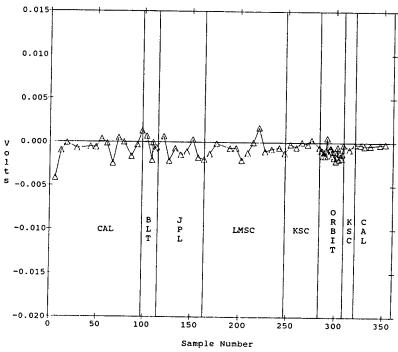
Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

### Offset history for radiometer detector 1-7.



Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

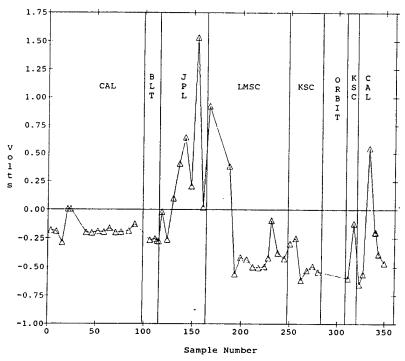
### **Chopper Off**



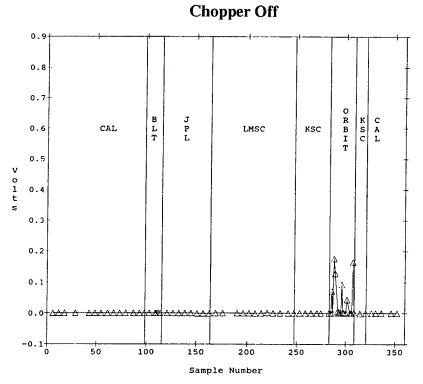
Gaiπ = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

Chopper On

Offset history for radiometer detector 1-8.

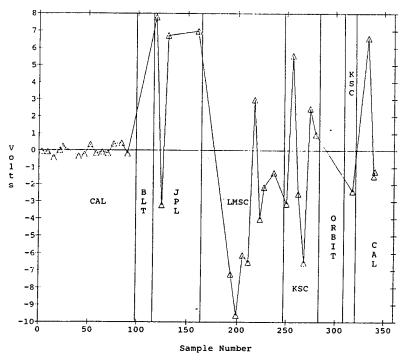


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

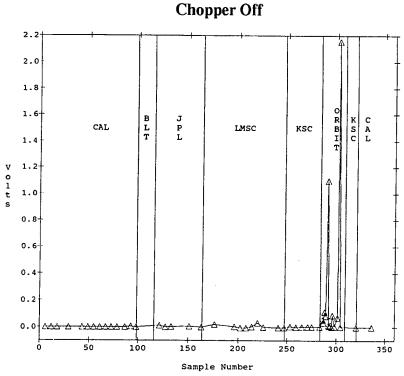


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

# Offset history for radiometer detector 2-1.

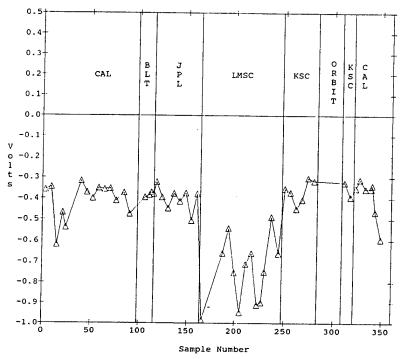


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

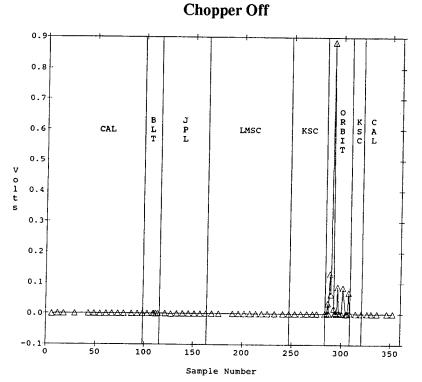


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

### Offset history for radiometer detector 2-2.

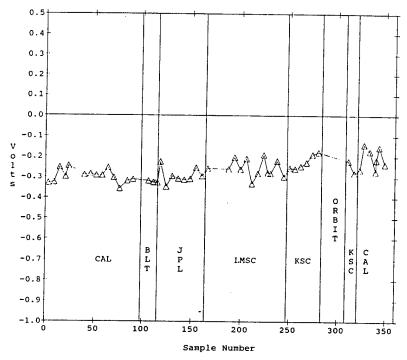


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

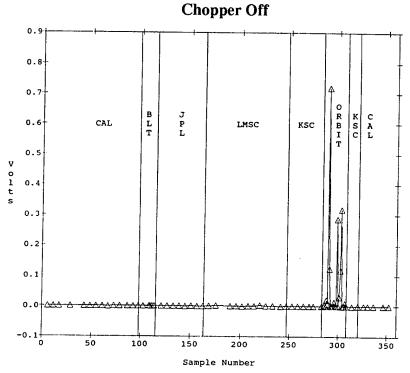


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

## Offset history for radiometer detector 2-3.

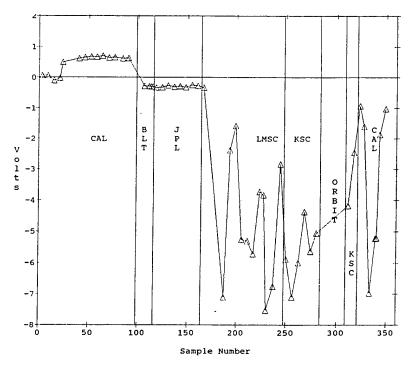


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

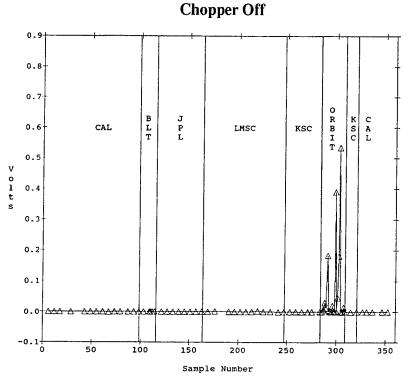


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

# Offset history for radiometer detector 2-4.

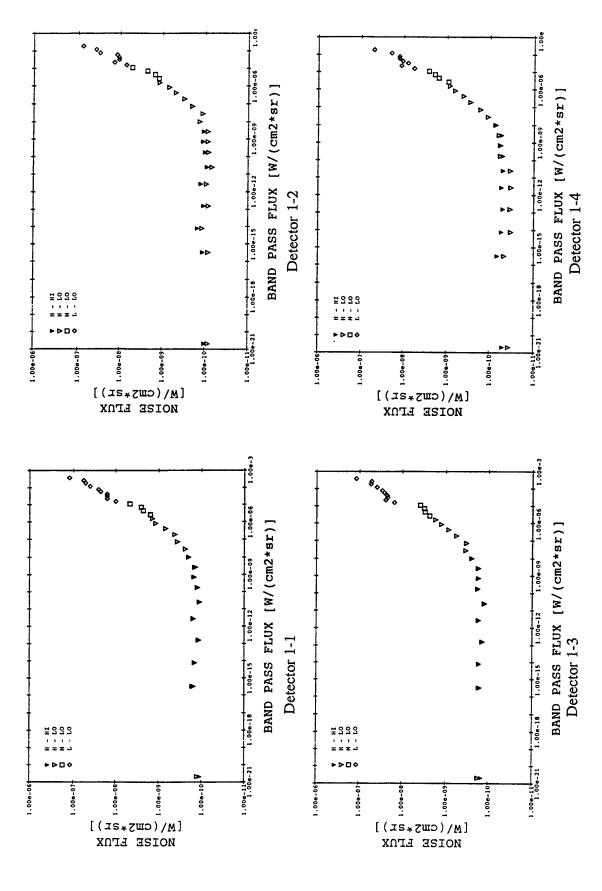


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

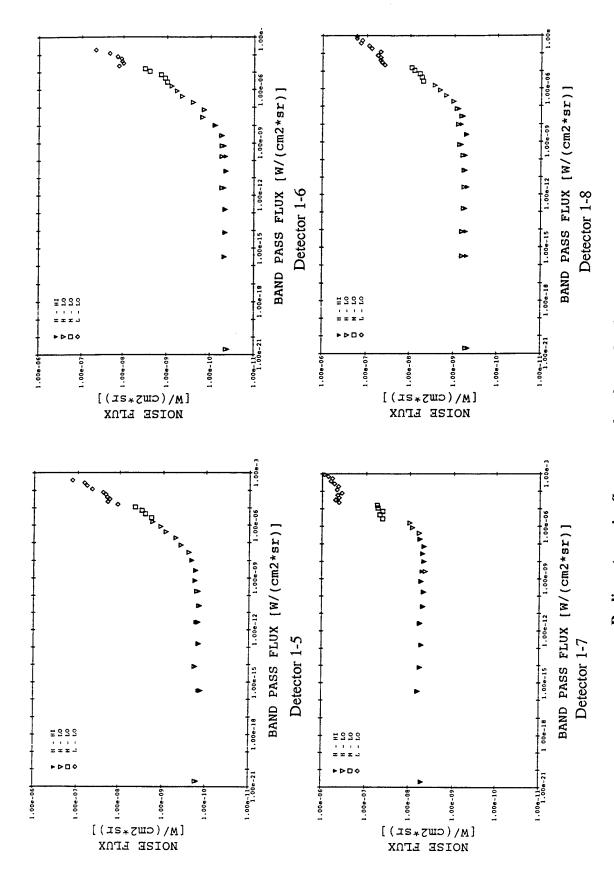


Gain = HI (x100), Bias = HHHH, FW 4, Sept 1988 - Feb 1992.

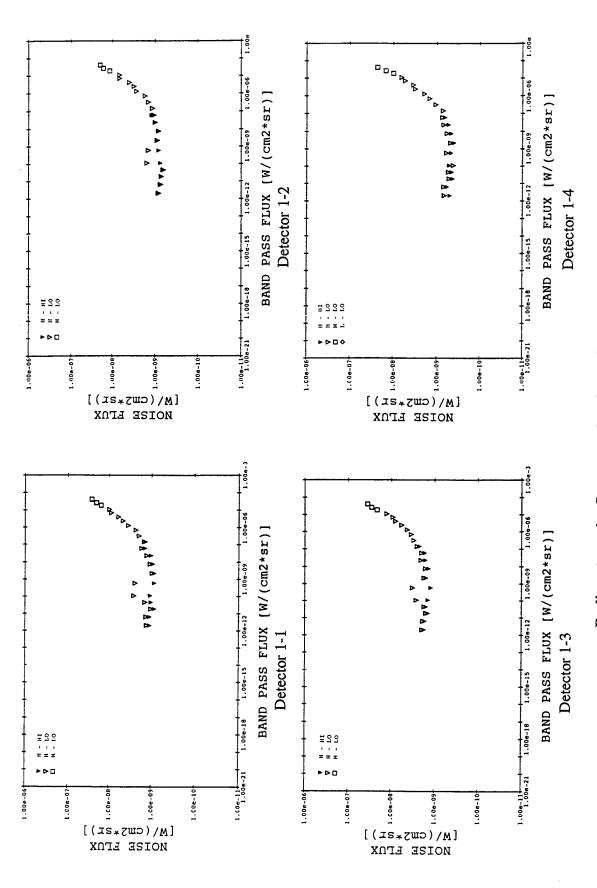
Offset history for radiometer detector 2-5.



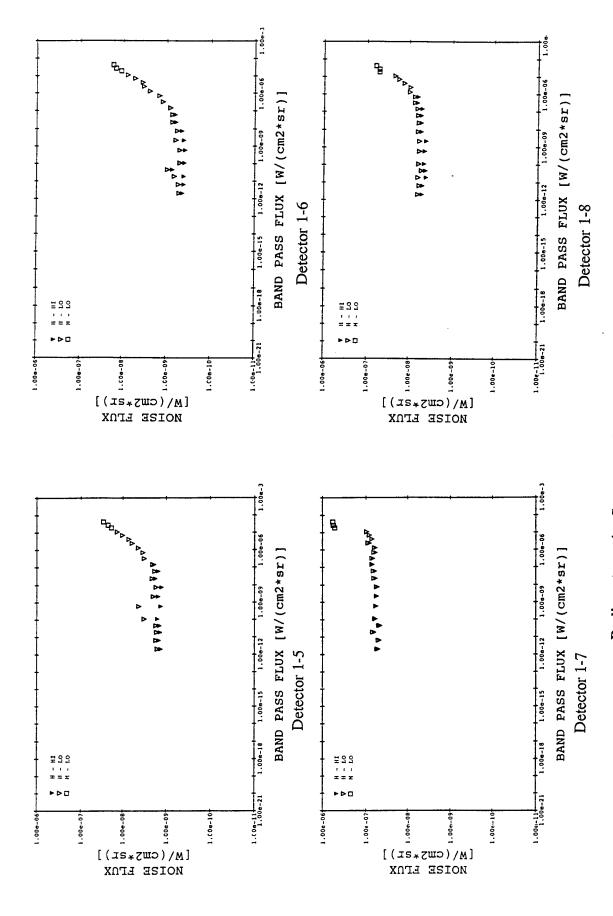
Radiometer noise flux versus band pass for filter 0 (chopper on, extended area source - order on curve labels is bias - gain).



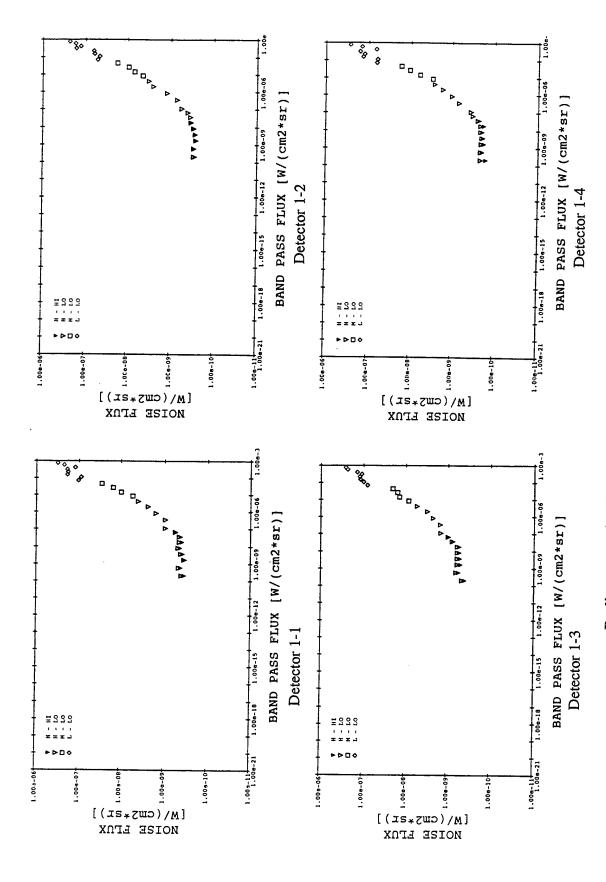
(chopper on, extended area source - order on curve labels is bias - gain). Radiometer noise flux versus band pass for filter 0



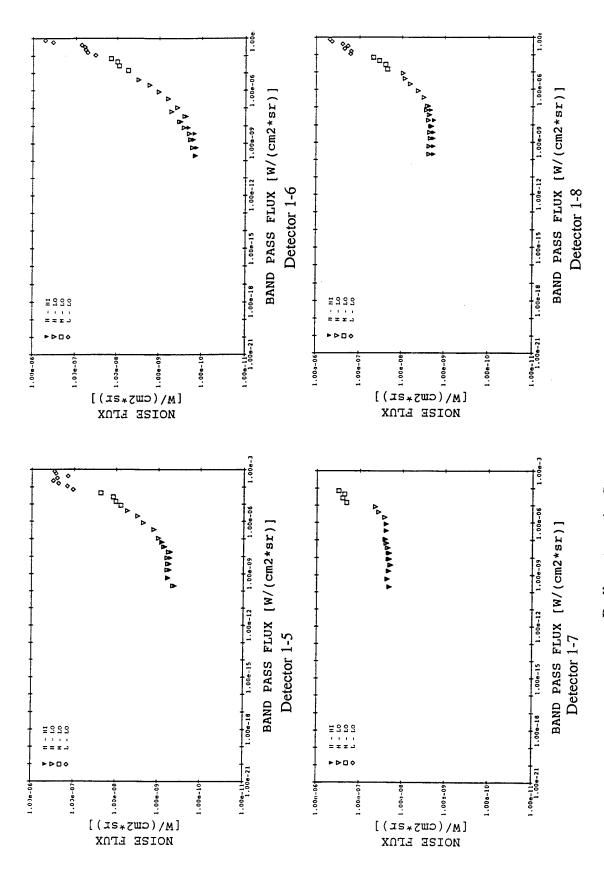
Radiometer noise flux versus band pass for filter 1 (chopper on, extended area source - order on curve labels is bias - gain).



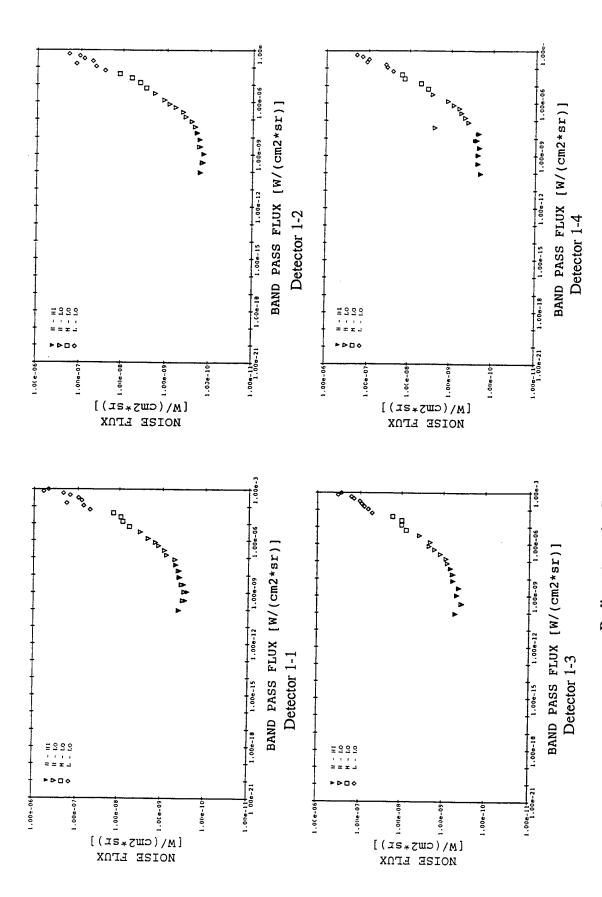
Radiometer noise flux versus band pass for filter 1 (chopper on, extended area source - order on curve labels is bias - gain).



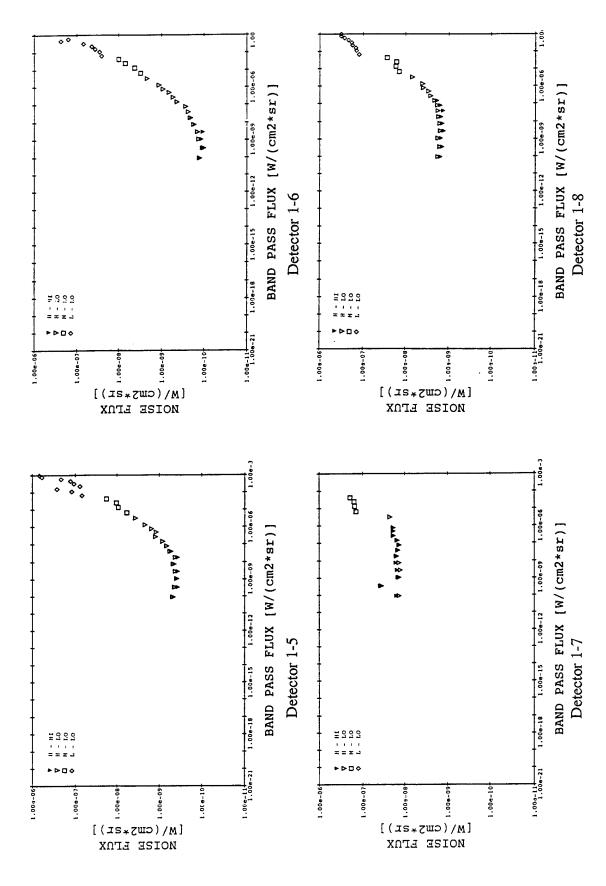
Radiometer noise flux versus band pass for filter 2 (chopper on, extended area source - order on curve labels is bias - gain).



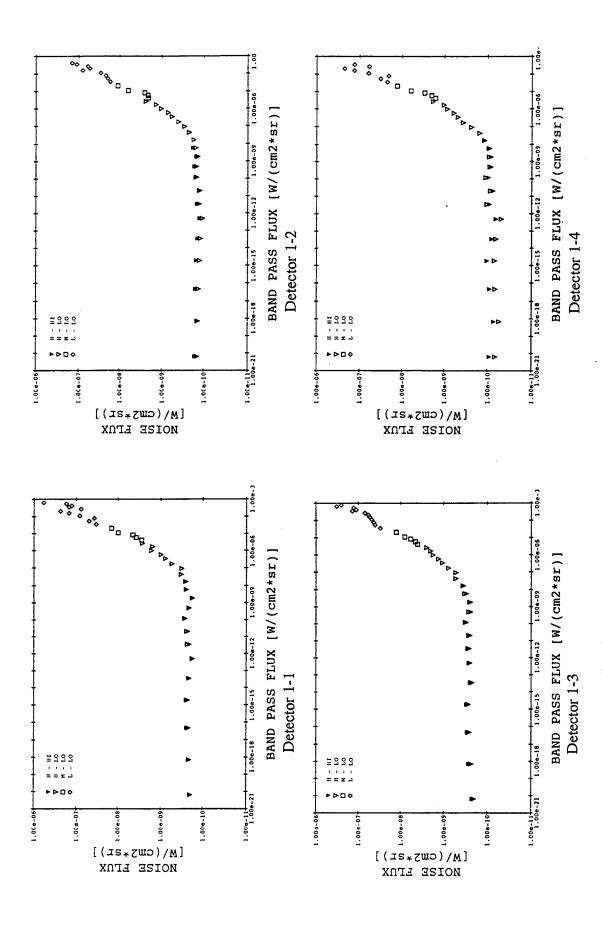
Radiometer noise flux versus band pass for filter 2 (chopper on, extended area source - order on curve labels is bias - gain).



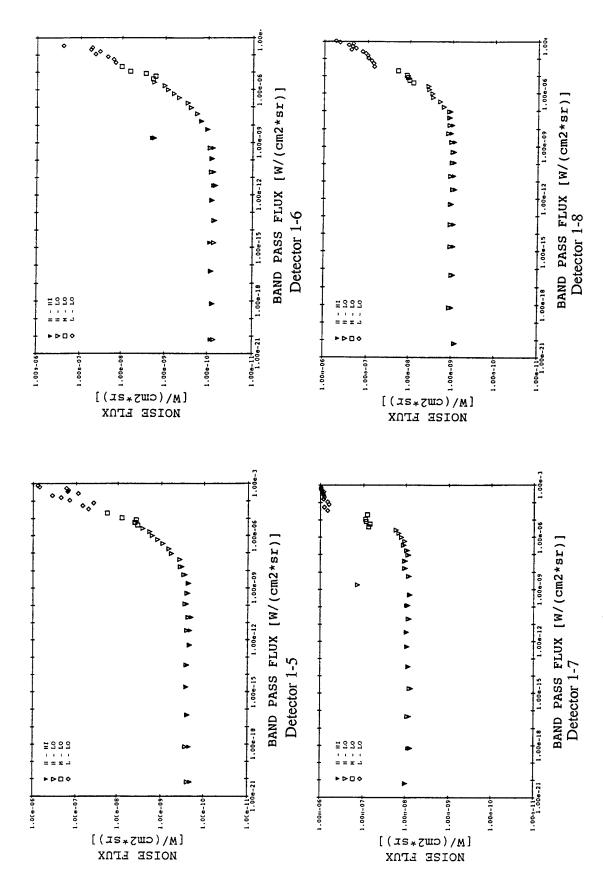
Radiometer noise flux versus band pass for filter 3 (chopper on, extended area source - order on curve labels is bias - gain).



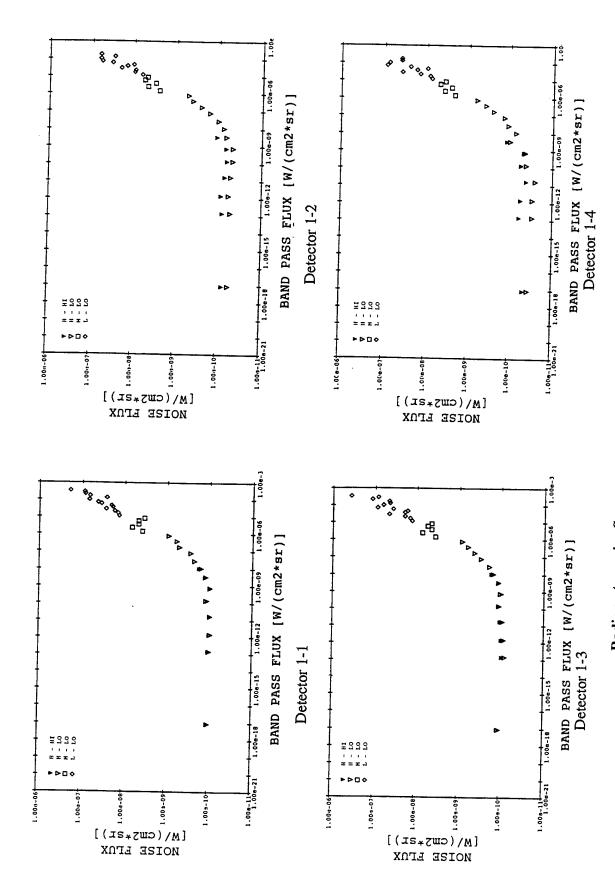
Radiometer noise flux versus band pass for filter 3 (chopper on, extended area source - order on curve labels is bias - gain).



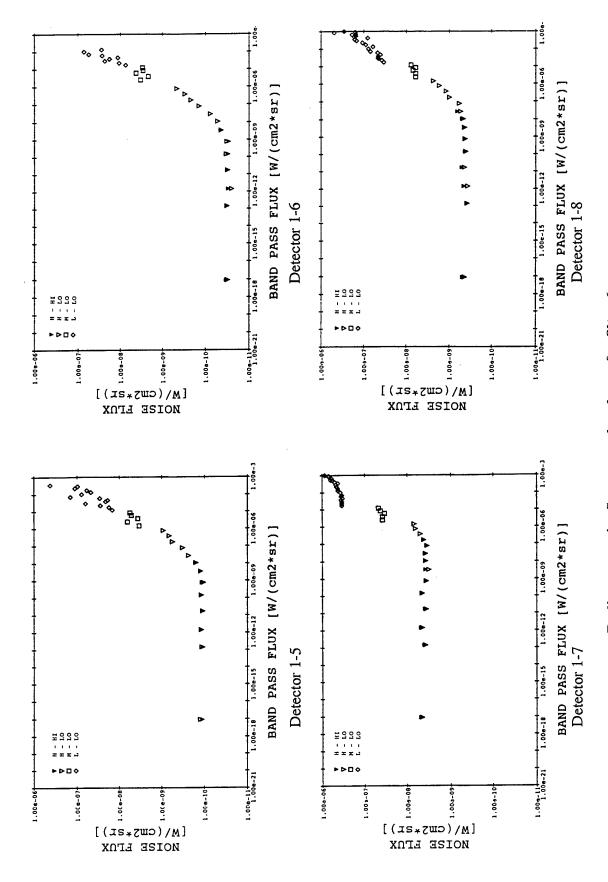
Radiometer noise flux versus band pass for filter 5 (chopper on, extended area source - order on curve labels is bias - gain).



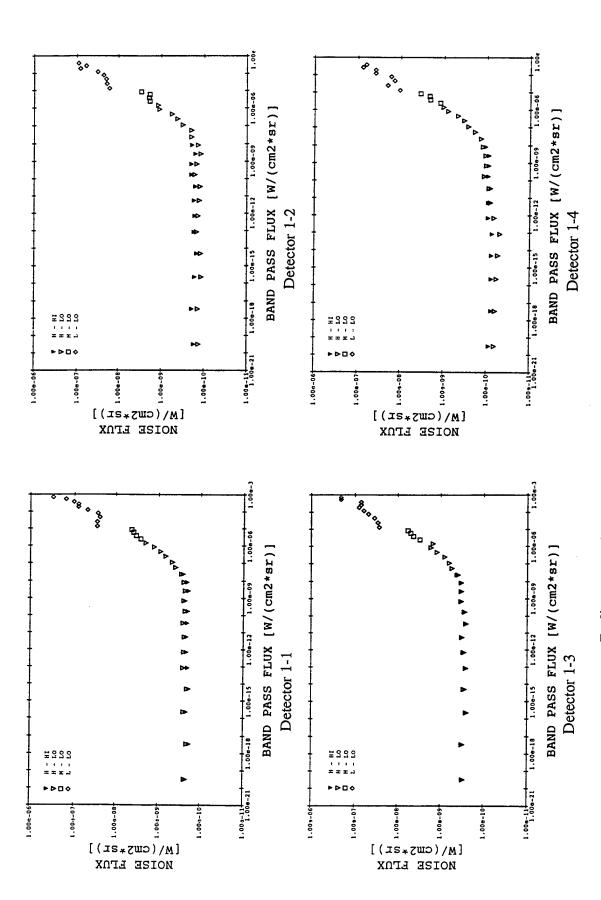
Radiometer noise flux versus band pass for filter 5 (chopper on, extended area source - order on curve labels is bias - gain).



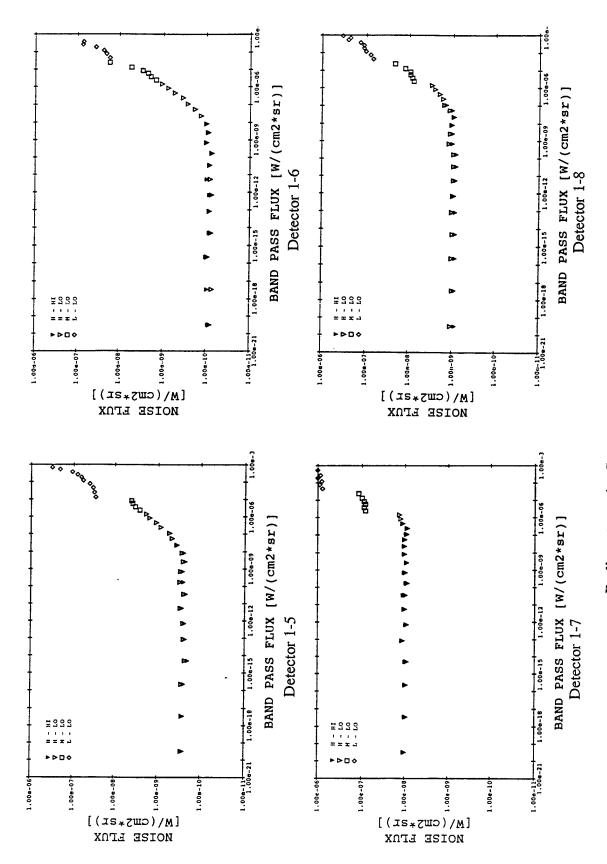
Radiometer noise flux versus band pass for filter 6 (chopper on, extended area source - order on curve labels is bias - gain).



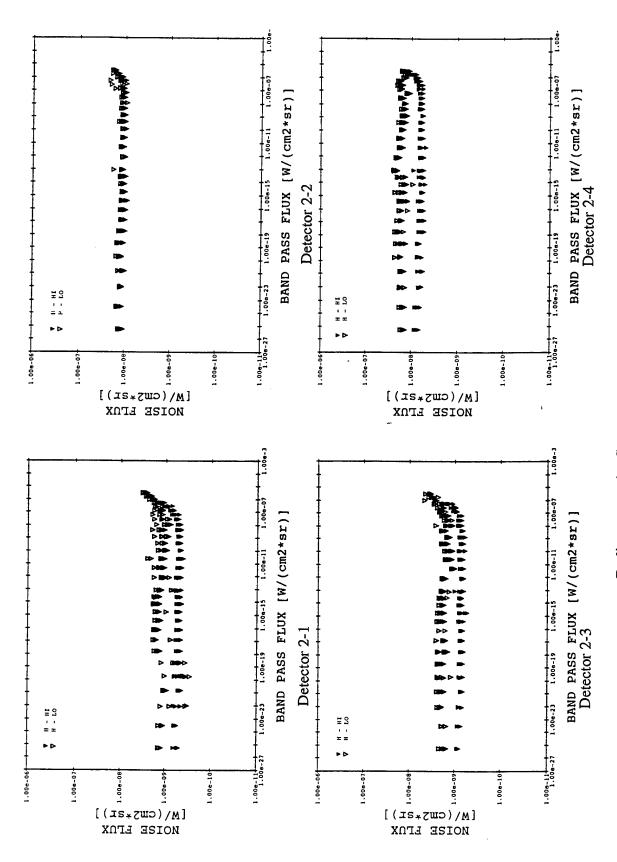
Radiometer noise flux versus band pass for filter 6 (chopper on, extended area source - order on curve labels is bias - gain).



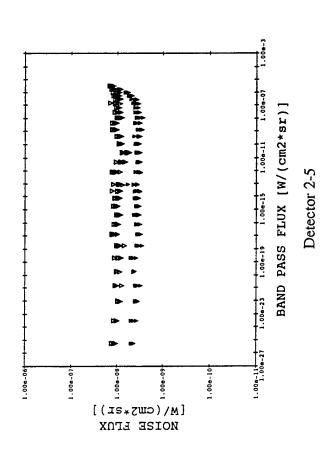
Radiometer noise flux versus band pass for filter 7 (chopper on, extended area source - order on curve labels is bias - gain).



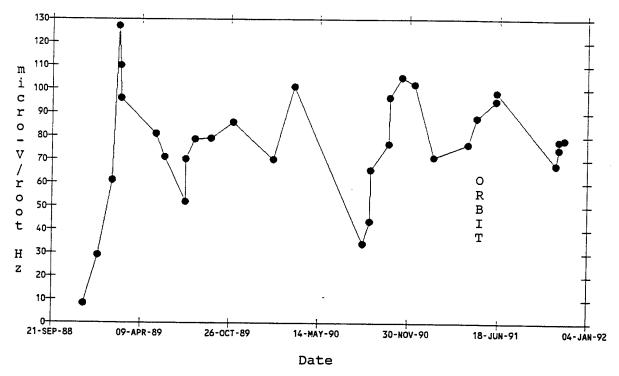
(chopper on, extended area source - order on curve labels is bias - gain). Radiometer noise flux versus band pass for filter 7



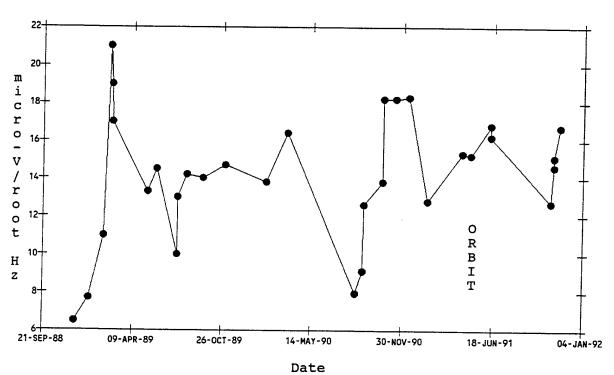
Radiometer noise flux versus band pass (chopper on, extended area source - order on curve labels is bias - gain).



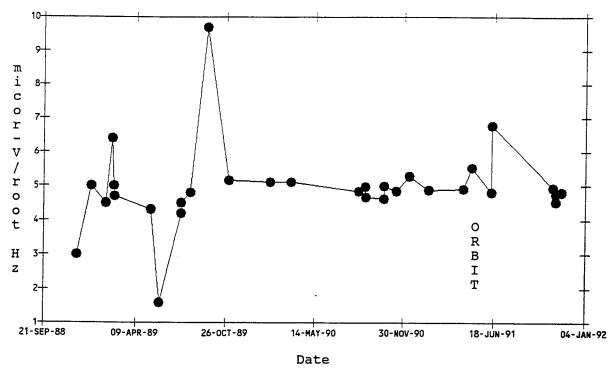
Radiometer noise flux versus band pass (chopper on, extended area source - order on curve labels is bias - gain).



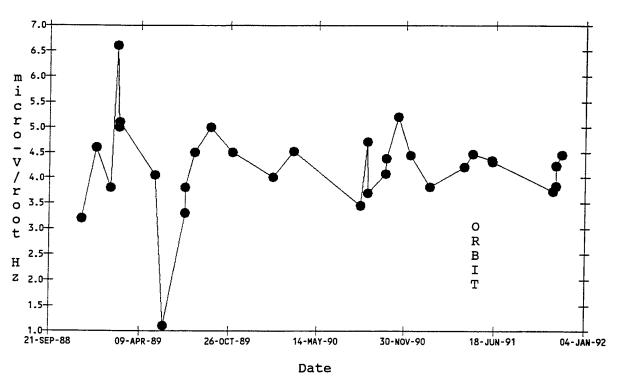
RMS noise history for interferometer detector 1.



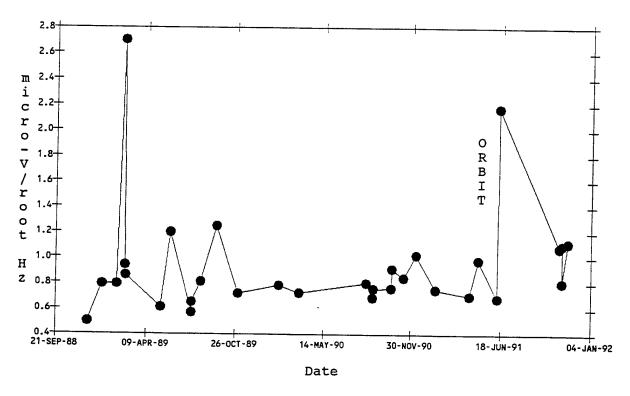
RMS noise history for interferometer detector 2.



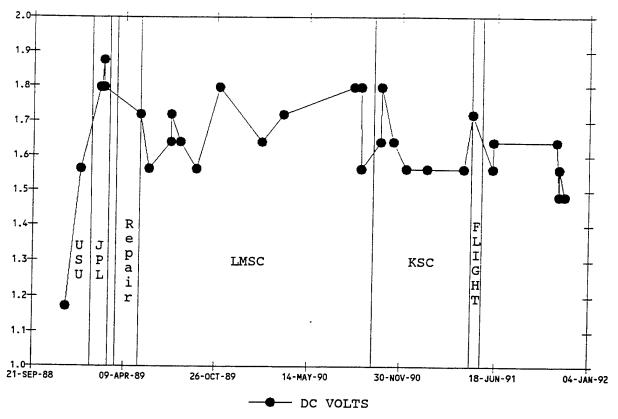
RMS noise history for interferometer detector 3.

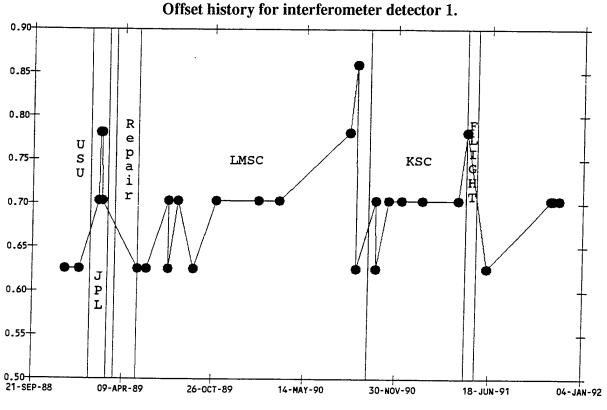


RMS noise history for interferometer detector 4.

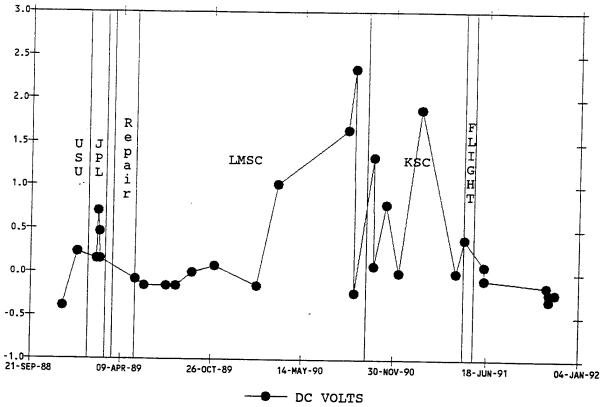


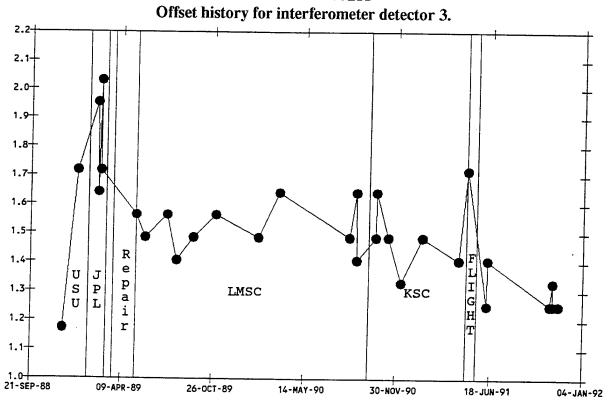
RMS noise history for interferometer detector 5.



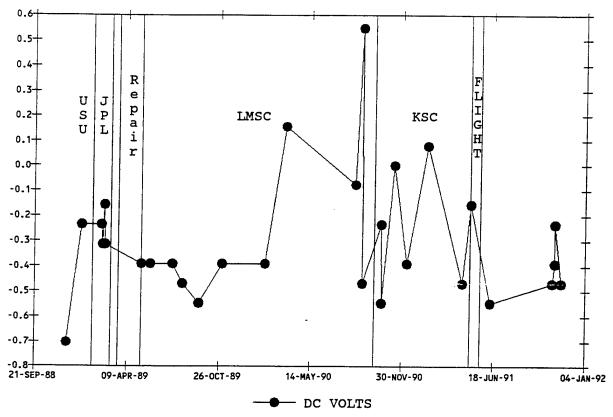


Offset history for interferometer detector 2.





Offset history for interferometer detector 4.



Offset history for interferometer detector 5.